

Catalogue 2006

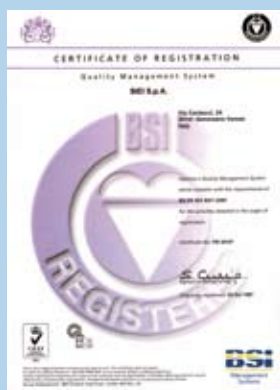
AC inverter_General purpose

ARTDriveG -EV



...life is control.

English_Italiano_Français_Deutsch_Español



Certificate No. FM 38167

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A UNI EN ISO9001:2000 certified quality company

Customer satisfaction is Gefran-Siei's primary aim: it is from this that mutual collaboration, maximum trust in the company and a consolidated long-standing partnership role stem.

Gefran-Siei ensures total support through its technical services (from design and start-up right up to on-stream assistance), which are more highly specialized than those which large multi-sector companies are able to offer.

Gefran-Siei always meets the demands of high tech users with the certainty of total quality.

Una azienda di qualità certificata UNI EN ISO9001:2000

La soddisfazione del cliente è il primo degli obiettivi Gefran-Siei: da qui nasce la reciproca collaborazione, la massima fiducia nell'azienda e il ruolo di partnership consolidata nel tempo.

Attraverso i propri Servizi Tecnici, Gefran-Siei garantisce un supporto globale, (dalla progettazione alla messa in funzione, fino all'assistenza in esercizio), molto più specializzato di quello che le grandi società multisettoriali sono in grado di offrire.

Alla domanda di un'utenza evoluta, Gefran-Siei risponde sempre con la certezza della qualità totale.

Une entreprise de qualité certifiée UNI EN ISO9001:2000

La satisfaction du client est le premier objectif de Gefran-Siei: c'est à partir de là qu'est née la collaboration réciproque, la plus grande confiance dans l'entreprise et le rôle de partenaire renforcé dans le temps.

Par ses propres Services Techniques, Gefran-Siei, garantit un support global, (de la conception à la mise en service, jusqu'à l'assistance en exercice), beaucoup plus spécialisé que celui que les grandes sociétés multi-sectorielles sont à même d'offrir. A la demande d'une utilisation évoluée, Gefran-Siei répond toujours avec la certitude de la qualité totale.

Ein Qualitätsbetrieb mit UNI EN ISO9001:2000- Zertifizierung

Eine uneingeschränkte Kundenzufriedenheit ist das oberste Ziel von Gefran-Siei: sie führt zu einer gemeinschaftlichen Zusammenarbeit, absolutem Vertrauen in die Firma und einer im Laufe der Zeit gefestigten partnerschaftlichen Beziehung. Durch den technischen Service garantiert Gefran-Siei umfassende Unterstützung (vom Entwurf über die Inbetriebnahme, bis hin zum Kundendienst), die kundennäher ist, als der angebotene Service von großen multisektorialen Gesellschaften. Gefran-Siei bietet auch auf innovative Anfragen die Sicherheit einer umfassenden Qualität.

Una administración de calidad certificada por UNI EN ISO9001:2000

La satisfacción del cliente es el primero de los objetivos de Gefran-Siei: de aquí nace la colaboración recíproca, la máxima confianza en la administración y el rol de asociación consolidada con el tiempo.

A través de los propios Servicios Técnicos, Gefran-Siei garantiza un soporte global del proyecto, desde la puesta en funcionamiento, hasta la asistencia en el ejercicio, más especializado de lo que las grandes sociedades multisectoriales pueden ofrecer. A la demanda de un servicio cualificado, Gefran-Siei responde siempre con la certeza de la calidad total.

ARTDriveG -EV General Purpose Inverter



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Generalità
Généralités
Allgemeines
General



Introduction

Introduzione
Introduction
Einleitung
Introducción

 ARTDrive G -EV is a "General Purpose" range of inverters ideally suited to regulating the speed of an AC motor in any application where a high level of torque is required at start-up or during low speed operation. Typically, this includes extruders, mixers, presses, washers, compressors, centrifugal pumps, etc.

Equipped with a large number of standard I/O and a series of intelligent functions, the AGy-EV inverter provides a single solution for a multitude of different market requirements - all in a financially competitive and highly versatile package.

A comprehensive range of dedicated options and accessories also guarantees total flexibility in meeting the vast range of different configurations demanded by modern control systems.

Designed and built with quick installation and programming in mind, AGy-EV boasts a simple and intuitive "Start-up" menu, in addition to intelligent functions that enable the user both to program the machine and to manage its configuration.

Catering for a range of different types of power supply, the range of products are subdivided in the following manner:

AGy-EV...-4 and AGy-EV...-4A for use with a 230V...480V, 50/60 Hz power supply rated from 0.75kW (1Hp) to 200kW (250Hp)

AGy-EV...-5 for use with a 575V, 50/60 Hz power supply rated from 2Hp to 200Hp

 ARTDrive G -EV è la serie di inverter "General Purpose", ideale per la regolazione di velocità di motori AC in applicazioni dove vengano richieste elevate coppie in partenza o verso le basse velocità, quali: estrusori, miscelatori, presse, lavaggi, compressori, pompe centrifughe, etc...

Provvisto di un elevato numero di I/O standard e di una serie di funzioni intelligenti, l'inverter AGy-EV nasce integrando in un'unica soluzione le molteplici esigenze di mercato, offrendo soluzioni versatili ed economicamente competitive.

Una serie completa di opzioni ed accessori dedicati, consentono inoltre una totale flessibilità alle svariate configurazioni richieste nei moderni sistemi di controllo.

Studiato e costruito per essere installato e programmato in modo immediato, AGy-EV integra un menu di "start-up" semplice ed intuitivo, oltre a funzioni intelligenti che facilitano l'utente nella programmazione e nella gestione delle configurazioni di macchina.

Disponibile per diverse tipologie di alimentazione, che suddividono la gamma nelle seguenti versioni:

AGy-EV - 4 ed AGy-EV - 4A per alimentazione 230V...480V, 50/60 Hz con potenze da 0,75kW (1Hp) a 200kW (250Hp)

AGy-EV - 5 per alimentazione 575V 50/60 Hz con potenze da 2Hp a 200Hp

Identification Code

Codice di Identificazione
Code d'Identification
Identifikationscode
Siglas Identificación Producto

AGy-EV 

AGy-EV 

ARTDriveG -EV

AC Inverter, 3 phase input voltage
Inverter CA, alimentazione trifase
Variateur CA, alimentation triphasée
Drehstrom-Frequenzumrichter, dreiphasige Versorgung
Inverter CA, alimentación trifásica

AGy-EV 

2, 3, 4, 5, 6, 7, 8

Enclosure dimension identification
Identificazione della dimensione custodia
Taille du boîtier
Baugröße
Identificación de las dimensiones

AGy-EV 

I.e, z.B.: 055 = 5.5kW
(AGy-EV...-4 , AGy-EV...-4A)

I.e, z.B.: 005 = 5Hp
(AGy-EV...-5)

Inverter rated output power
Potenza nominale in uscita
Puissance nominale de sortie
Ausgangsnennleistung
Potencia nominal de salida

AGy-EV 

AGy-EV...-4=KBG-1
AGy-EV...-4A=KB-EV-LCD/F
AGy-EV...-5=KB-EV-LCD/F

Programming keypad
Tastierino di programmazione
Clavier de programmation
Programmierungs-Bedieneinheit
Teclado de programación

AGy-EV 

X, B

X = without integrated braking circuit, **B** = with integrated braking circuit
X = senza unità di frenatura interna, **B** = con unità di frenatura interna
X = sans unité de freinage interne, **B** = avec unité de freinage interne
X = ohne Bremskreis, **B** = integrierter Bremskreis
X = suministro sin unidad de frenado integrada, **B** = suministro con unidad de frenado integrada

AGy-EV 

X

Standard software
Software standard
Logiciel standard
Standardsoftware
Software estándar

AGy-EV 

4, 4A, 5,

-4 = standard version, **-4A** = American version, **-5** = 575V version
-4 = versione standard, **-4A** = versione America, **-5** = versione 575V
-4 = version standard, **-4A** = version Amérique, **-5** = version 575V
-4 = Standardausführung, **-4A** = Ausführung für Amerika, **-5** = 575 V Ausführung
-4 = versión estándar, **-4A** = versión América, **-5** = versión 575V

AGy-EV 

C, [blank]

C = CANopen/DeviceNet Integrated, **[blank]** = without CANopen (standard)
C = CANopen/DeviceNet Integrato, **[vuoto]** = senza CANopen (standard)
C = CANopen/DeviceNet Intégré, **[vide]** = sans CANopen (standard)
C = CANopen/DeviceNet integriert, **[leer]** = ohne CANopen (Standard)
C = CANopen/DeviceNet Integrado, **[vacío]** = sin CANopen (estandar)



"AGy-EV...-4" series

- Three phase power supply
230V -15% ... 480V +10%, 50/60Hz $\pm 5\%$
- Motor power rating from 0.75kW to 200kW
- Standard version complete with default setting for a 400V, 50Hz power supply

"AGy-EV...-4A" series

- Three phase power supply
230V -15% ... 480V +10%, 50/60Hz $\pm 5\%$
- Motor power rating from 0.75kW to 200kW (1Hp to 250Hp)
- "American" version complete with default setting for a 460V, 60Hz power supply

"AGy-EV...-5" series

- Three phase power supply 500V -10% ... 575V +10%, 50/60Hz $\pm 5\%$
- Motor power rating from 2Hp to 200Hp
- Version complete with default setting for a 575V, 60Hz power supply

Standard

- Output frequency up to 500Hz
- Integrated dynamic brake unit
- Variable and constant torque control
- 16 programmable multispeeds
- 4 programmable multiramps
- Control functions:
 - "autocapture"
 - Mains loss detection with controlled stop
 - Programmable autorestart
 - PID applications block
 - Energy saving
 - Skip frequencies
- Programmable overload in accordance with EN 60146-1-1 Classes 1 and 2
- Field bus interface : ProfiBus, CANOpen and DeviceNet
- Integrated management for remote I/O control
- Open or closed speed loop control via encoder
- Area with programmable logics
- Keypad suitable for parameter storage
- Change the keypad language setting via the E@syDrives configurator.

Standard Configuration

- **KBG-1**: 7 segment LED programming keypad for AGy-EV...-4 version
- **KB-EV-LCD/F**: multilingual programming keypad (ENG-FR) complete with alphanumeric display for the AGy-EV...-4A and AGy-EV...-5 versions
- 2 analog differential inputs 0V... ± 10 V and/or 0...+10V
- 1 analog current input 0...20mA and/or 4...20mA
- 2 analog programmable voltage outputs 0...10V (± 10 V)
- 8 digital programmable inputs (PNP or NPN logic)
- 2 digital programmable static outputs (open collector)
- 2 programmable relay outputs (double dry contact)
- RS485 serial line (Modbus RTU or Jbus protocol)

Options

- **KB-EV-LCD / ..** : multilingual programming keypad complete with alphanumeric display
 - KB-EV-LCD / I (ENG-IT)
 - KB-EV-LCD / D (ENG-GER)
 - KB-EV-LCD / E (ENG-SPA)
- **EXP-D6A1R1-AGy**: Inputs / Outputs expansion
- **EXP-D8-120**: digital inputs interface at 120VAC
- **EXP-ENC-AGy**: encoder feedback management
- **SBI-PDP-AGy**: ProfiBus (Profidrive) interface
- **SBI-COP/DN-AGy**: CANOpen and / or DeviceNet interface
- **PRG-KEY**: data storage device

Accessories (Optional)

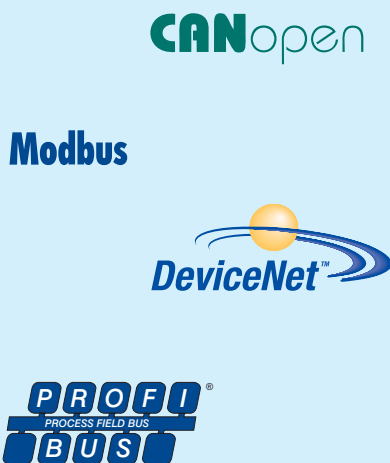
- Dedicated EMC filters (in compliance with EU directive EN50178)
- Brake resistance (standardised for the entire range)
- Input and output inductances (standardised for the entire range)
- Kit for installing NEMA 1 type protection
- Remote keypad kit

Ambient conditions

- Housing**: IP20 (NEMA1 optional)
- Ambient temperature**: from 0°C to 40 °C, from + 40 °C to +50 °C with derating.
- Humidity**: from 5% to 85%, relative humidity (without condensation) or ice formation (category 3K3 in compliance with EN50178)
- Altitude**: up to 1000 metres above sea level. Above this ceiling, that the current is reduced by 1.2% for each additional 100 metres in altitude.

Regulations and Brands

- EU**: conforms to the relevant EU low voltage equipment directive.
- UL, cUL**: conforms to directives for the US and Canadian markets.
- CSA**: conforms to directive for the Canadian market.
- EMC**: conforms to EU directive EN 61800-3/A11, relating to electromagnetic compatibility with the use of optional filters.



Programming Menu

Menu di Programmazione
Menu de Programmation
Programmiermenü
Menú de Programación



 The intuitive AGy-EV inverter programming software can be used to set up basic system settings and motor start-up in a simple and straightforward manner. Menus are subdivided in a logical manner, whilst lending themselves to the creation of structures facilitating the speedy optimisation and setting of more complicated controls.

Menu d - Display	Monitor operating variables and parameters
Menu S - Startup	Quick start-up
Menu I - Interface	Inputs / Outputs setting
Menu F - Freq & Ramp	Frequencies and ramps setting
Menu P - Parameter	Parameters and functions setting
Menu A - Application	Application functions setting
Menu C - Command	Commands functions execution.

 Grazie ad un intuitivo software di programmazione, l'inverter AGy-EV consente di eseguire le impostazioni base del sistema e la partenza del motore in modo semplice e rapido. Una suddivisione razionale dei menu, fornisce inoltre strutture tali da facilitare e velocizzare qualsiasi ottimizzazione od impostazione di controlli più complessi.

Menu d - Display	Monitor parametri e variabili di funzionamento
Menu S - Startup	Messa in servizio rapida
Menu I - Interface	Impostazione Ingressi / Uscite
Menu F - Freq & Ramp	Impostazione frequenze e rampe
Menu P - Parameter	Impostazione funzioni e parametri di regolazione
Menu A - Application	Impostazione funzioni applicative
Menu C - Command	Esecuzione funzioni di comando.

 Grâce à un logiciel de programmation intuitif, le variateur AGy-EV permet d'exécuter les paramétrages de base du système et le démarrage du moteur de manière simple et rapide. Une division rationnelle en menus, fournit la structures pour un paramétrage et une optimisation rapide des contrôles les plus complexes.

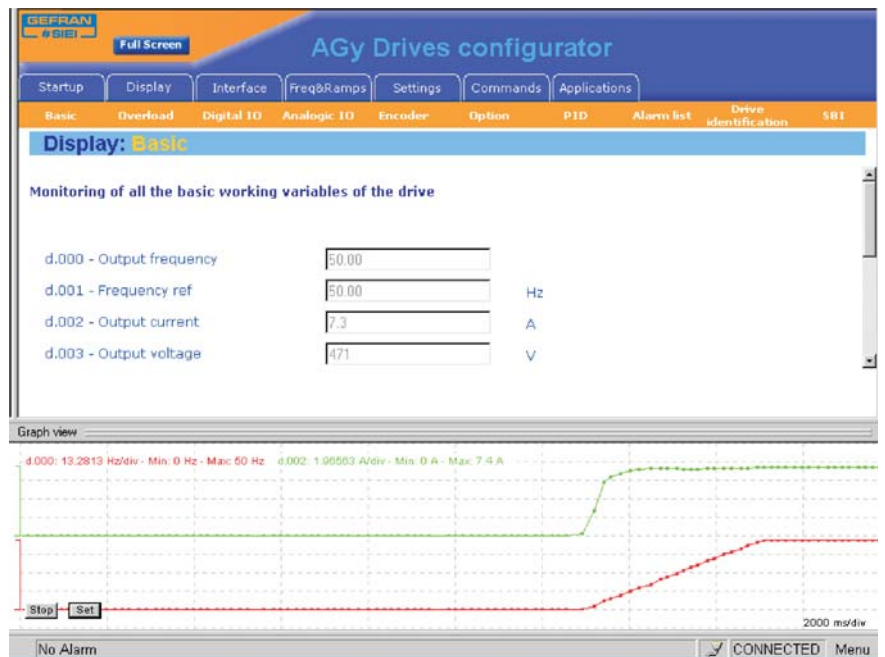
Menu d - Display	Moniteur des paramètres et des variables de fonctionnement
Menu S - Startup	Mise en service rapide
Menu I - Interface	Paramétrage Entrées / Sorties
Menu F - Freq & Ramp	Paramétrage des fréquences et des rampes
Menu P - Parameter	Paramétrage des fonctions et des paramètres de régulation
Menu A - Application	Paramétrage des fonctions d'application
Menu C - Command	Exécution des fonctions de commande.

 Dank einer logischen Programmier-SW ermöglicht der Frequenzumrichter AGy-EV die Vornahme der Grundeinstellungen des Systems und einen einfachen und schnellen Motorstart. Die rationale Menüunterteilung liefert außerdem Strukturen, die die Optimierung oder Einstellung komplexester Steuerungen erleichtern und beschleunigen.

Menu d - Display	Bildschirm Betriebsparameter und -variable
Menu S - Startup	Schnell-Inbetriebnahme
Menu I - Interface	Einstellung Eingänge / Ausgänge (I/O Konfiguration)
Menu F - Freq & Ramp	Einstellung Frequenzen und Rampen
Menu P - Parameter	Einstellung Steuerfunktionen und -parameter
Menu A - Application	Einstellung Anwendungsfunktionen
Menu C - Command	Durchführung Befehlsfunktionen.

 Gracias a un intuitivo software de programación, el convertidor de frecuencia AGy-EV se puede utilizar para instalaciones y puestas en marcha de motores, de forma sencilla y rápida. Una subdivisión de los menús permite la creación de estructuras facilitando una rápida optimización y programación de los controles más complicados.

Menu d - Display	Monitor de funcionamiento de variables y parámetros
Menu S - Startup	Puesta en marcha rápida
Menu I - Interface	Ajuste entradas y salidas de corriente
Menu F - Freq & Ramp	Instala frecuencias y rampas
Menu P - Parameter	Ajuste de parámetros y funciones
Menu A - Application	Ajuste de funciones de aplicación
Menu C - Command	Ejecución de ordenes.



 The E@syDrives configurator allows users to configure and operate AGy-EV series inverters via the PC.

The menu structures are subdivided into HTML pages and allow for straightforward interfacing. This in turn, facilitates quick and easy start-up, optimisation and diagnostics.

E@syDrives operates in a typical Windows environment by displaying dialogue windows and toolbars, both for programming the inverter and for the management and storage of the configuration files in question.

The configurator can be installed on any PC running Windows 95 or above.

E@syDrives is included on the CD-ROM stored inside the drive packaging. The configurator can therefore be used to carry out the following operations:

- serial communication with the drive via the Modbus RTU or Jbus protocol
- multidrop network management for up to 32 inverters
- reading and writing of all parameters / commands
- configuration via HTML graphics pages
- configuration via parameter numerical index
- reading of all system variables
- oscilloscope function capable of graphically displaying signal trends
- parameter storage on drive memory
- configuration file management and storage
- on-line and off-line configuration

 Il configuratore E@syDrives, consente all'utente di configurare ed utilizzare gli inverter della serie AGy-EV tramite PC.

La struttura dei menu suddivisa in pagine HTML offre un semplice interfacciamento, permettendo facili e veloci procedure di messa in servizio, ottimizzazione e diagnostica.

E@syDrives lavora in tipico ambiente Windows, proponendo quindi finestre di dialogo e barre degli strumenti, sia per la programmazione dell'inverter che per la gestione ed il salvataggio degli stessi files di configurazione.

Il configuratore è installabile su PC con sistema operativo Windows 95 e successivi.

E@syDrives è incluso nel cd-rom presente all'interno della confezione del drive.

Mediante il configuratore, saranno quindi possibili le seguenti operazioni:

- comunicazione seriale con il drive mediante protocollo Modbus RTU o Jbus
- gestione in rete multidrop fino a 32 inverter
- lettura e scrittura di tutti i parametri / comandi
- configurazione mediante pagine grafiche HTML
- configurazione mediante indice numerico dei parametri
- lettura di tutte le variabili di sistema
- funzione oscilloscopio per trend grafico segnali
- memorizzazione parametri su memoria del drive
- salvataggio e gestione files di configurazione
- configurazione on-line ed off-line

Scelta dell'Inverter
Sélection du Variateur
Wahl des Frequenzumrichters
Selección del Convertidor de Frecuencia



Co-ordination of the nominal power rating for a motor with the type of inverter that is referred to in the table will require use of motors that operate at a voltage corresponding to the nominal values of the power supply network.
For motors that operate at other voltages, the type of inverter that is selected will depend on the nominal current of the motor to be controlled.

The combination put forward in the table, therefore reflects, as a function of the power supply voltage, the value of current the drive is able to supply operating conditions (IEC146 Class 1) and under overload conditions (IEC146 Class 2), i.e.:

IEC 146 Class 1: continuous operation with maximum overload = $I_{2N} \times 1.36$ for 60 seconds
IEC 146 Class 2: continuous operation at 0.91% of I_{2N} with maximum overload = $0.91 I_{2N} \times 1.5$ for 60 seconds every 5 minutes

Analogous dimensioning criteria are applicable for any operations to which additional downgrading factors are applicable:

KV Power supply voltage
KT Ambient temperature
KF Switching frequency

AGy-EV...-4 /-4A	Output data	--->	table on page 16
	Input data	--->	table on page 17
AGy-EV...-5	Output data	--->	table on page 18
	Input data	--->	table on page 19



Il coordinamento delle potenze nominali del motore con il tipo di inverter riportato in tabella, prevede l'impiego di motori con tensione nominale corrispondente alla nominale della rete di alimentazione.

Per motori con tensione differente, la scelta dell'inverter dovrà essere effettuata in base alla corrente nominale del motore stesso.

L'abbinamento suggerito in tabella, riporta quindi in funzione della tensione di alimentazione, il valore di corrente erogabile dal drive in condizioni di funzionamento continuativo (IEC146 Classe1) ed in condizioni di sovraccarico (IEC146 Classe 2), ovvero:

IEC 146 Classe 1: servizio continuativo con sovraccarico max = $I_{2N} \times 1,36$ per 60 secondi
IEC 146 Classe 2: servizio continuativo allo 0,91% di I_{2N} con sovraccarico max = $0,91 I_{2N} \times 1,5$ per 60 secondi ogni 5 minuti

Criteri di dimensionamento analoghi, vengono applicati per operazioni con fattori di declassamento addizionali:

KV Tensione di alimentazione
KT Temperatura ambiente
KF Frequenza di switching

AGy-EV...-4 /-4A	Dati di uscita	--->	tabella a pagina 16
	Dati di ingresso	--->	tabella a pagina 17
AGy-EV...-5	Dati di uscita	--->	tabella a pagina 18
	Dati di ingresso	--->	tabella a pagina 19



La coordination des puissances nominales du moteur avec le type du variateur figurant dans le tableau, prévoit l'utilisation de moteurs ayant une tension nominale correspondant à la tension nominale du réseau d'alimentation.

Pour les moteurs ayant une tension différente, la sélection du variateur doit être effectuée en fonction du courant nominal du moteur.

La sélection suggérée dans le tableau, indique, en fonction de la tension d'alimentation, la valeur du courant fourni par le variateur dans des conditions d'un service continu (IEC146 Classe1) et dans des conditions de surcharge (IEC146 Classe 2), c'est-à-dire :

IEC 146 Classe 1: service continu avec une surcharge maxi = $I_{2N} \times 1,36$ pendant 60 secondes
IEC 146 Classe 2: service continu à 0,91% de I_{2N} avec une surcharge maxi = $0,91 I_{2N} \times 1,5$ pendant 60 secondes toutes les 5 minutes

Des critères de dimensionnement analogues sont appliqués pour les opérations avec des facteurs de déclassement supplémentaires :

KV Tension d'alimentation
KT Température ambiante
KF Fréquence de commutation

AGy-EV...-4 /-4A	Caractéristiques de sortie	--->	tableau page 16
	Caractéristiques d'entrée	--->	tableau page 17
AGy-EV...-5	Caractéristiques de sortie	--->	tableau page 18
	Caractéristiques d'entrée	--->	tableau page 19

AGy-EV...-4 /-4A Output data

Dati in Uscita

Caractéristiques de Sortie

Ausgangsdaten

Datos de Salida

Drive Type	Inverter Output (IEC 146 class 1), Continuous service (@ 400 V _{AC})		P _N mot (recommended motor output):								U ₂ Max output voltage	f ₂ Max output frequency	I _{2N} Rated output current :				I _{void} (short term overload current, 200% of I2N for 0.5s on 60s)	f _{SW} switching frequency (Default)	f _{SW} switching frequency (Higher)	Derating factor:		
	Inverter Output (IEC 146 class 2),150% overload for 60s (@ 400 V _{AC})		@ U _{LN} =230 V _{AC} ; f _{SW} =default; IEC 146 class 1	@ U _{LN} =230 V _{AC} ; f _{SW} =default; IEC 146 class 2	@ U _{LN} =230 V _{AC} ; f _{SW} =default; IEC 146 class 1	@ U _{LN} =230 V _{AC} ; f _{SW} =default; IEC 146 class 2	@ U _{LN} =400 V _{AC} ; f _{SW} =default; IEC 146 class 1	@ U _{LN} =400 V _{AC} ; f _{SW} =default; IEC 146 class 2	@ U _{LN} =460 V _{AC} ; f _{SW} =default; IEC 146 class 1	@ U _{LN} =460 V _{AC} ; f _{SW} =default; IEC 146 class 2			@ U _{LN} =230-400 V _{AC} ; f _{SW} =default; IEC 146 class 1	@ U _{LN} =230-400 V _{AC} ; f _{SW} =default; IEC 146 class 2	@ U _{LN} =460 V _{AC} ; f _{SW} =default; IEC 146 class 1	@ U _{LN} =460 V _{AC} ; f _{SW} =default; IEC 146 class 2				Voltage Factor K _V at 460 V _{AC} *	Temp. Factor K _T for ambient temperature	Switching frequency K _F
AGy-EV	kVA	kVA	kW	kW	Hp	Hp	kW	kW	Hp	Hp	V	Hz	A	A	A	A	A	kHz	kHz	K _V	K _T	K _F
1007	1.6	1.4	0.37	0.37	0.5	0.5	0.75	0.75	1	0.75		500	2.4	2.2	2.1	1.9	4.4	8	16	0.87		
1015	2.7	2.4	0.75	0.75	1	1	1.5	1.5	2	1.5		500	4	3.6	3.5	3.2	7.2	8	16	0.87		
1022	3.8	3.4	1.1	1.1	1.5	1.5	2.2	2.2	3	2		500	5.6	5.1	4.9	4.4	10.2	8	16	0.87		
1030	5	4.5	1.5	1.5	2	2	3	3	3	3		500	7.5	6.8	6.5	5.9	13.6	8	16	0.87		
2040	6.5	5.9	2.2	2.2	3	3	4	4	5	5		500	9.6	8.7	8.3	7.6	17.4	8	16	0.87		
2055	8.5	7.7	3	3	4	4	5.5	5.5	7.5	7.5		500	12.6	11.5	12.1	10	23	8	16	0.96		
2075	12	10.9	4	4	5	5	7.5	7.5	10	10		500	17.7	16.1	15.4	14	32.2	8	16	0.87		
3110	16.8	15.3	5.5	5.5	7.5	7.5	11	11	15	15	0.94 x U _{LN} (AC Input voltage)	500	24.8	22.5	23.1	21	45	8	16	0.93	0.8 @ 50°C (122°F)	0.7 for higher f _{SW}
3150	22.4	20.3	7.5	7.5	10	10	15	15	20	20		500	33	30	29.7	27	60	8	16	0.90		
4185	27	24.6	10	9	10	10	18.5	18.5	25	20		500	39	35	34	31	70	8	16	0.87		
4220	32	29	11	11	15	15	22	22	30	25		500	47	43	41	37	86	8	16	0.87		
4300	42	38.2	18.5	15	25	20	30	30	40	30		500	63	57	55	50	116	8	16	0.87		
4370	55	50	22	18.5	30	25	37	37	50	40		500	79	72	69	63	144	8	16	0.87		
5450	64	58.3	22	22	30	30	45	45	60	50		200	93	85	81	74	170	4	8	0.87		
5550	79	72	30	30	40	40	55	55	75	60		200	114	104	99	90	208	4	8	0.87		
6750	98	89.2	37	37	50	50	75	55	100	75		200	142	129	124	112	258	4	8	0.87		
7900	128	116.5	55	45	75	60	90	90	125	100		200	185	168	161	146	338	4	8	0.87		
71100	145	132	55	55	75	75	110	90	150	125		200	210	191	183	166	382	4	8	0.87		
71320	173	157.5	75	55	100	75	132	110	150	150	200	250	227	218	198	454	4	8	0.87			
81600	224	204	90	90	125	100	160	160	200	200	200	324	295	282	257	n.a.	4	4	0.87			
82000	277	252	100	100	125	125	200	200	250	250	200	400	364	348	317	n.a.	4	-	0.87			



*: Data recorded for operating conditions at an ambient temperature of 40 °C.



*: Dati riportati per condizioni di funzionamento a temperatura ambiente 40°C.



*: Données fournies pour des conditions de fonctionnement sous une température ambiante de 40°C.



*: Die angeführten Daten gelten unter Betriebsbedingungen bei einer Umgebungstemperatur von 40° C.



*: Datos para condiciones de trabajo en una temperatura ambiente de 40°C.

AGy-EV...-4 / -4A Input data

Dati in Ingresso
Caratteristiche d'Entrée

Eingangsdaten
Datos de Entrada

Drive Type	U _{in} AC Input voltage	AC Input frequency	I _N AC Input current for continuous service, IEC 146 class 1 :						Max short circuit power without line reactor (Zmin=1%)	Overvoltage threshold	Undervoltage threshold	Braking IGBT Unit, Standard internal (with external resistor) MAX braking torque
			- Connection with 3-phase reactor @ 230 V _{AC}	- Connection with 3-phase reactor @ 400 V _{AC}	- Connection with 3-phase reactor @ 460 V _{AC}	- Connection without 3-phase reactor @ 230 V _{AC}	- Connection without 3-phase reactor @ 400 V _{AC}	- Connection without 3-phase reactor @ 460 V _{AC}				
AGy-EV	V	Hz	A	A	A	A	A	A	kVA	V	V	%
1007			1.7	1.9	1.7	3.6	3.9	3.4	160			150
1015			2.9	3.3	2.9	4.4	4.8	4.2	270			150
1022			4	4.5	3.9	6.8	7.4	6.4	380			150
1030			5.5 *	6.2 *	5.4 *	7.9 *	9 *	7.8 *	500			150
2040			7	7.9	7	11	12	10.4	650			150
2055			9.5	10.7	9.3	15.5	16.9	14.7	850	440 V _{DC} (for 230 V _{AC} mains), 820 V _{DC} (for 460 V _{AC} mains)	230 V _{DC} (for 230 V _{AC} mains), 415 V _{DC} (for 460 V _{AC} mains)	150
2075			14 *	15.8 *	13.8 *	21.5 *	24.2 *	21 *	1200			150
3110	230 V _{AC} + 10%, 3Ph 480 V _{AC} + 10%, 230 V _{AC} -15% ...	50/60 Hz ±5%	18.2	20.4 *	17.8 *	27.9	30.3	26.4	1700			150
3150				25 *	28.2 *	24.5 *	35.4 *	40 *	34.8 *	2250	150	
4185				32.5	36.7	32.5	(1)	(1)	(1)	2700	150 (2)	
4220			39	44	37	(1)	(1)	(1)	3200			150 (2)
4300			55	62	53	(1)	(1)	(1)	4200			150 (2)
4370			69	77	66	(1)	(1)	(1)	5500			150 (2)
5450			84	94	82	(1)	(1)	(1)	6400			150 (2)
5550			98	110	96	(1)	(1)	(1)	7900			150 (2)
6750			122	137	120	(1)	(1)	(1)	9800			(3)
7900			158	177	153	(1)	(1)	(1)	12800			(3)
71100			192	216	188	(1)	(1)	(1)	14500			(3)
71320			220	247	214	(1)	(1)	(1)	17300			(3)
81600			275	309	268	(1)	(1)	(1)	22400			(3)
82000			n.a.	365	318	(1)	(1)	(1)	27700			(3)



*: Use of an external inductance is recommended for the stated dimensions.
(1): For these types an external inductance is recommended. (2): Optional internal braking unit (with external resistor). (3): External braking unit (optional).



*: Per le taglie indicate si consiglia comunque l'uso di un induttanza di rete.
(1): Per questi modelli è consigliato l'uso dell'induttanza di rete. (2): Unità di frenatura interna opzionale (con resistenza esterna). (3): Unità di frenatura esterna (opzionale).



*: Pour les tailles indiquées, il est conseillé d'utiliser une inductance de réseau.
(1): Pour ces modèles, il est conseillé d'utiliser une inductance de réseau. (2): Unité de freinage interne en option (avec résistance externe). (3): Unité de freinage extérieure (option).



*: Für die angeführten Größen wird in jedem Fall die Verwendung einer Netzdrossel empfohlen.
(1): Für diese Modelle wird die Verwendung einer Netzdrossel empfohlen. (2): Optionale interne Bremseinheit (mit externem Widerstand). (3): Externe Bremseinheit (optional).



*: Se recomienda el uso de inductancias de red para las dimensiones establecidas.
(1): Se recomienda una inductancia de red para este tipo. (2): Unidad de frenado interna opcional (con resistencia externa). (3): Unidad de frenado externo (opcional).

AGy-EV...-5 Output data

Dati in Uscita
Caractéristiques de Sortie

Ausgangsdaten
Datos de Salida

Drive Type	Inverter Output (IEC 146 class 1), Continuous service (@ 575 Vac)	Inverter Output (IEC 146 class 2), 150% overload for 60s (@ 575 Vac)	P _N mot (recommended motor output) :		U ₂ Max output voltage	f ₂ Max output frequency	I _{2N} Rated output current :		I _{ovld} (short term overload current, 200% of I _{2N} for 0.5s on 60s)	f _{sw} switching frequency (Default)	f _{sw} switching frequency (Higher)	Derating factor :	
			@ U _{LN} = 575 Vac ; f _{sw} = default; IEC 146 class 1	@ U _{LN} = 575 Vac ; f _{sw} = default; IEC 146 class 2			@ U _{LN} = 575 Vac ; f _{sw} = default; IEC 146 class 1	@ U _{LN} = 575 Vac ; f _{sw} = default; IEC 146 class 2				Temp. Factor K _t for ambient temperature	Switching frequency K _f (for higher f _{sw})
AGy-EV	kVA	kVA	Hp	Hp	V	Hz	A	A	A	kHz	kHz	K _t	K _f
2002	3.8	3.4	2	2		400	3.8	3.5	7	8	16		0.7
2003	4.5	4.1	3	3		400	4.5	4.1	8.2	8	16		0.7
2005	7.0	6.3	5	5		400	7.0	6.4	12.8	8	16		0.7
3007	10.8	9.8	7.5	7.5		400	10.8	9.8	19.6	8	16		0.7
3010	13.7	12.5	10	10		400	13.8	12.6	25.2	8	16		0.7
3015	18.6	16.9	15	15		400	18.7	17	34	8	16		0.7
3020	24.1	21.9	20	20		200	24.2	22	44	4	8		0.87
4025	30	27	25	25		200	30	27	54	4	8		0.8
4030	36	33	30	30		200	36	33	66	4	8		0.8
4040	46	42	40	40		200	46	42	84	4	8		0.8
5050	58	53	50	50	0.94 x U _{LN} (AC input voltage)	200	58	53	106	4	8	0.8 @ 50°C (122°F)	0.8
5060	69	63	60	60		200	69	63	126	4	8		0.8
5075	86	78	75	75		200	86	78	156	4	8		0.64
6100	109	99	100	100		200	109	99	198	4	4		n.a.
7125	136	124	125	125		200	137	125	249	4	4		n.a.
7150	157	143	150	150		200	158	144	288	2	4		0.87
8200	210	191	200	200		200	211	192	384	2	2		n.a.

AGy-EV...-5 Input data

Dati in Ingresso
Caractéristiques d'Entrée

Eingangsdaten
Datos de Entrada

Drive Type	U _{LN} AC Input voltage	AC Input frequency	I _N AC Input current for continuous service, IEC 146 class 1 :		Max short circuit power without line reactor (Zmin=1%)	Overvoltage threshold	Undervoltage threshold	Braking IGBT Unit, MAX braking torque
			- Connection with 3-phase reactor @ 575 V _{AC}	- Connection without 3-phase reactor @ 575 V _{AC}				
AGy-EV	V	Hz	A	A	kVA	V	V	%
2002	500V _{AC} -10% ... 575V _{AC} + 10%, 3Ph	50/60 Hz ±5%	3.8	5.3	380	1000 V _{DC}	565 V _{DC} (for 575 V _{AC} mains)	150 (1)
2003			4.7	6.1	450			150 (1)
2005			7.4	9.9	700			150 (1)
3007			11.7	17	1080			150 (1)
3010			15	20.7	1370			150 (1)
3015			19.8	27.6	1860			150 (1)
3020			25.9	33.9	2410			150 (1)
4025			31	(4)	3000			150 (2)
4030			35	(4)	3600			150 (2)
4040			46	(4)	4600			150 (2)
5050			60	(4)	5800			150 (2)
5060			68	(4)	6900			150 (2)
5075			85	(4)	8600			150 (2)
6100			114	(4)	10900			(3)
7125			146	(4)	13700			(3)
7150			163	(4)	15700			(3)
8200			216	(4)	21000			(3)



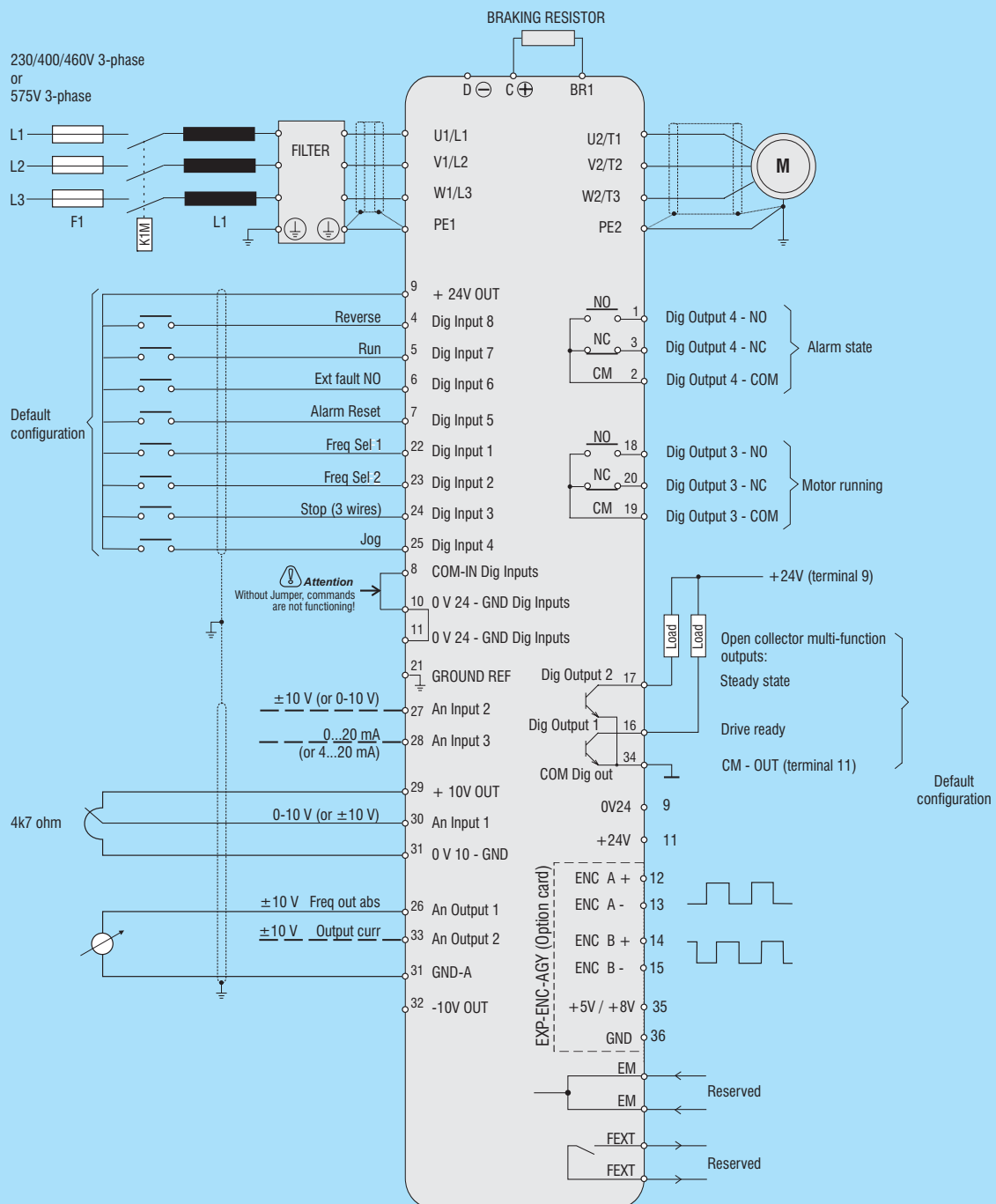
(1): Standard internal (with external resistor). (2): Optional internal braking unit (with external resistor). (3): External braking unit (optional). (4): DC choke integrated
(1): Interna standard (con resistenza esterna). (2): Unità di frenatura interna opzionale (con resistenza esterna). (3): Unità di frenatura esterna (opzionale). (4): Induttanza su DC link integrata



(1): Standard en interne (avec résistance externe). (2): Unité de freinage interne ne option (avec résistance externe). (3): Unité de freinage extérieure (option). (4): Self DC intégrée
(1): Standard eingebaut (mit externem Bremswiderstand). (2): Eingebaute Bremsseinheit optional (mit externem Bremswiderstand). (3): Externe Bremsseinheit (optional). (4): Eingebaute Zwischenkreis-Drosseln



(1): Interna estándar (con resistencia externa). (2): Unidad de frenado interno opcional (con resistencia externa). (3): Unidad de frenado exterior (opcional). (4): Bobina CC integrada



The connection diagram describes a typical inverter connection arrangement, set up to handle PNP logic "Terminal box commands". Refer to the instruction manual for additional detailed data.



Lo schema di collegamento indica una connessione tipica dell'inverter, predisposto per "Comandi da morsetti" in logica PNP. Ulteriori informazioni dettagliate, sono disponibili nel relativo manuale d'istruzione.



Le schéma de connexion indique une connexion typique du variateur, prévu pour "Commandes par bornes" en logique PNP. Pour de plus amples informations voir la notice d'instruction correspondante.



Der Anschlussplan zeigt einen typischen Frequenzumrichteranschluss, der für "Befehle über Klemmleiste" in PNP-Logik bestimmt ist. Nähere Informationen sind dem entsprechenden Handbuch zu entnehmen.

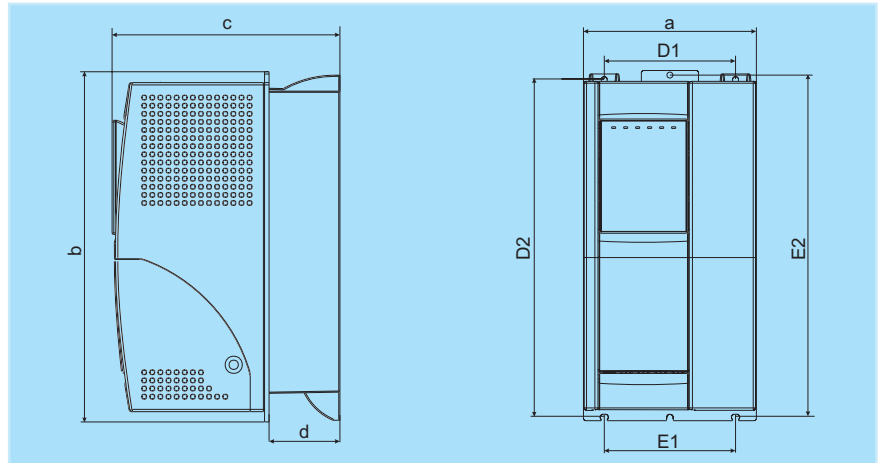


El esquema de conexión describe un convertidor de frecuencia con una conexión típica, instalada para manejar en lógica PNP "Mandos de la Caja de Terminales". Utilice el manual de instrucciones para información detallada adicional.

Dimensions and Weights

AGy-EV2... , AGy-EV3...

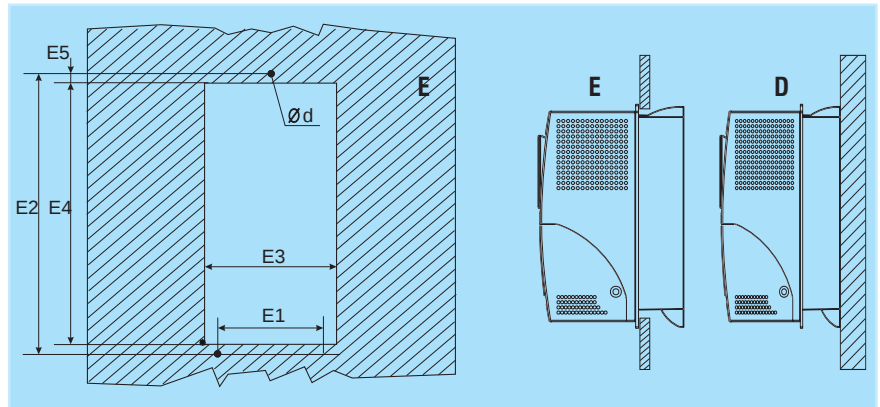
Dimensioni e Pes
Dimensions et Poids
Abmessungen und Gewichte
Dimensiones y Pesos



Assembly Method

Metodo di Montaggio
Mode de Montage
Montageart
Metodos de Montaje

- (E): Assembly with external heatsink
 Montaggio con dissipatore esterno
 Montage avec dissipateur extérieur
 Montage mit externem Kühlkörper
 Montaje con disipador externo
- (D): Wall assembly
 Montaggio a muro
 Montage au mur
 Wandmontage
 Montaje a la pared

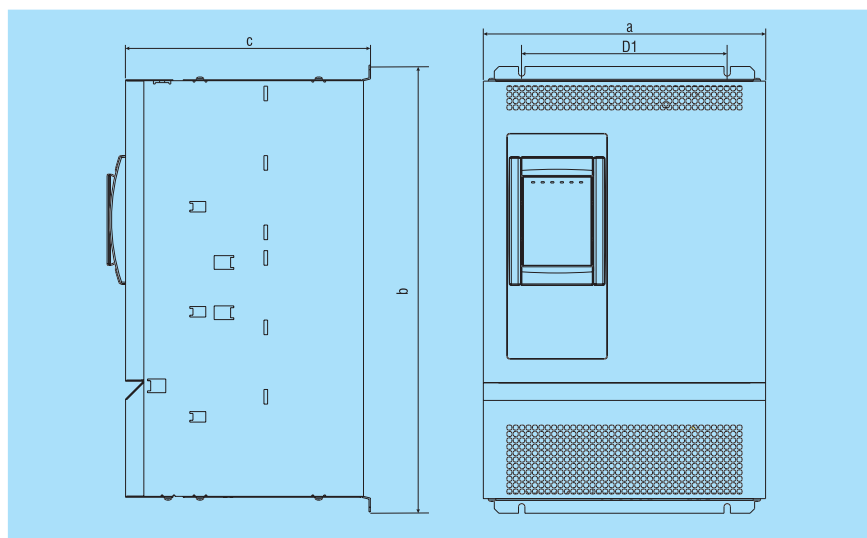


Dimensions mm [inch]	AGy-EV...-4 (230V...480V)										AGy-EV...-5 (575V)					
	1007	1015	1022	1030	2040	2055	2075	3110	3150	2002	2003	2005	3007	3010	3015	3020
a	105.5 [4.1]	105.5 [4.1]	105.5 [4.1]	105.5 [4.1]	151.5 [5.9]	151.5 [5.9]	151.5 [5.9]	208 [8.2]	208 [8.2]	151.5 [5.9]	151.5 [5.9]	151.5 [5.9]	208 [8.2]	208 [8.2]	208 [8.2]	208 [8.2]
b	306.5 [12.0]	306.5 [12.0]	306.5 [12.0]	306.5 [12.0]	306.5 [12.0]	306.5 [12.0]	306.5 [12.0]	323 [12.7]	323 [12.7]	306.5 [12.0]	306.5 [12.0]	306.5 [12.0]	323 [12.7]	323 [12.7]	323 [12.7]	323 [12.7]
c	199.5 [7.8]	199.5 [7.8]	199.5 [7.8]	199.5 [7.8]	199.5 [7.8]	199.5 [7.8]	199.5 [7.8]	240 [9.5]	240 [9.5]	199.5 [7.8]	199.5 [7.8]	199.5 [7.8]	240 [9.5]	240 [9.5]	240 [9.5]	240 [9.5]
d	62 [2.4]	62 [2.4]	62 [2.4]	62 [2.4]	62 [2.4]	62 [2.4]	62 [2.4]	84 [3.3]	84 [3.3]	62 [2.4]	62 [2.4]	62 [2.4]	84 [3.3]	84 [3.3]	84 [3.3]	84 [3.3]
D1	69 [2.7]	69 [2.7]	69 [2.7]	69 [2.7]	115 [4.5]	115 [4.5]	115 [4.5]	168 [6.6]	168 [6.6]	115 [4.5]	115 [4.5]	115 [4.5]	168 [6.6]	168 [6.6]	168 [6.6]	168 [6.6]
D2	296.5 [11.6]	296.5 [11.6]	296.5 [11.6]	296.5 [11.6]	296.5 [11.6]	296.5 [11.6]	296.5 [11.6]	310.5 [12.2]	310.5 [12.2]	296.5 [11.6]	296.5 [11.6]	296.5 [11.6]	310.5 [12.2]	310.5 [12.2]	310.5 [12.2]	310.5 [12.2]
E1	69 [2.7]	69 [2.7]	69 [2.7]	69 [2.7]	115 [4.5]	115 [4.5]	115 [4.5]	164 [6.5]	164 [6.5]	115 [4.5]	115 [4.5]	115 [4.5]	164 [6.5]	164 [6.5]	164 [6.5]	164 [6.5]
E2	299.5 [11.7]	299.5 [11.7]	299.5 [11.7]	299.5 [11.7]	299.5 [11.7]	299.5 [11.7]	299.5 [11.7]	315 [12.4]	315 [12.4]	299.5 [11.7]	299.5 [11.7]	299.5 [11.7]	315 [12.4]	315 [12.4]	315 [12.4]	315 [12.4]
E3	99.5 [3.9]	99.5 [3.9]	99.5 [3.9]	99.5 [3.9]	145.5 [5.7]	145.5 [5.7]	145.5 [5.7]	199 [7.8]	199 [7.8]	145.5 [5.7]	145.5 [5.7]	145.5 [5.7]	199 [7.8]	199 [7.8]	199 [7.8]	199 [7.8]
E4	284 [11.2]	284 [11.2]	284 [11.2]	284 [11.2]	284 [11.2]	284 [11.2]	284 [11.2]	299.5 [11.8]	299.5 [11.8]	284 [11.2]	284 [11.2]	284 [11.2]	299.5 [11.8]	299.5 [11.8]	299.5 [11.8]	299.5 [11.8]
E5	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]	9 [0.35]
Ød	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5	M5
Weight kg [lbs]	3.5 [7.7]	3.6 [7.9]	3.7 [8.1]	3.7 [8.1]	4.95 [10.9]	4.95 [10.9]	4.95 [10.9]	8.6 [19]	8.6 [19]	4.6 [10.1]	4.6 [10.1]	4.8 [10.6]	8.2 [18]	8.2 [18]	8.8 [19.4]	8.8 [19.4]

Dimensions and Weights

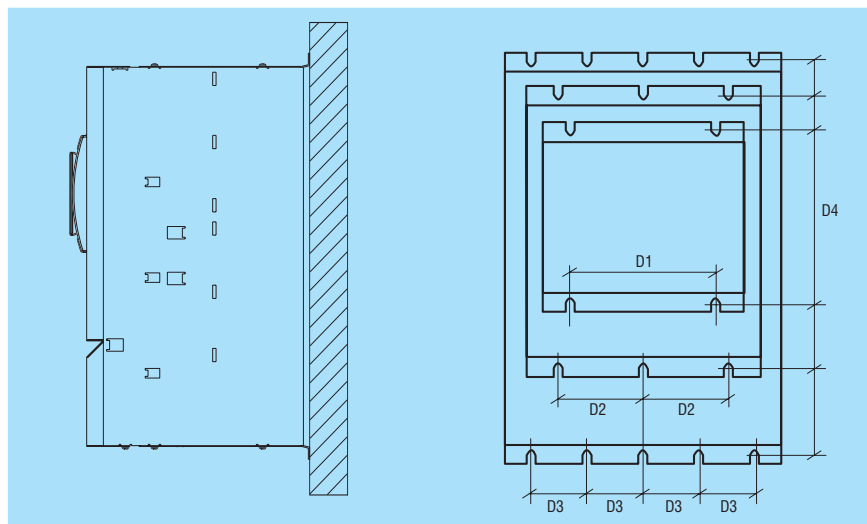
AGy-EV4... , AGy-EV5... ,
AGy-EV6... , AGy-EV7... , AGy-EV8...

Dimensioni e Pes
Dimensions et Poids
Abmessungen und Gewichte
Dimensiones y Pesos



Mounting Method

Metodo di Montaggio
Mode de Montage
Montageart
Metodos de Montaje



(D): Wall mounting
 Montaggio a muro
 Montage au mur
 Wandmontage
 Montaje a la pared

Dimensions	AGy-EV...-4 (230V...480V)										AGy-EV...-5 (575V)									
mm [inch]	4185 4220	4300	4370	5450 4550	6750	7900	7110	71320	81600	82000	4025	4030	4040	5050	5060	5075	6100	7125	7150	8200
a	309 [12.1]	309 [12.1]	309 [12.1]	376 [14.7]	509 [20]	509 [20]	509 [20]	509 [20]	509 [20]	509 [20]	350 [13.8]	350 [13.8]	350 [13.8]	418 [16.4]	418 [16.4]	418 [16.4]	509 [20]	509 [20]	509 [20]	509 [20]
b	489 [19.2]	489 [19.2]	489 [19.2]	564 [22.2]	741 [29.2]	909 [35.8]	909 [35.8]	909 [35.8]	965 [38]	965 [38]	569 [22.4]	569 [22.4]	569 [22.4]	605 [23.8]	605 [23.8]	605 [23.8]	921 [36.2]	1113 [43.8]	1113 [43.8]	1183 [46.6]
c	268 [10.5]	308 [12.1]	308 [12.1]	308 [12.1]	297.5 [11.7]	297.5 [11.7]	297.5 [11.7]	297.5 [11.7]	442 [17.4]	442 [17.4]	268 [10.5]	268 [10.5]	320 [12.6]	320 [12.6]	320 [12.6]	320 [12.6]	297.5 [11.7]	297.5 [11.7]	297.5 [11.7]	297.5 [11.7]
D1	225 [8.8]	225 [8.8]	225 [8.8]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D2	-	-	-	150 [15.9]	-	-	-	-	-	-	150 [15.9]	150 [15.9]	150 [15.9]	150 [15.9]	150 [15.9]	150 [15.9]	-	-	-	-
D3	-	-	-	-	100 [3.9]	100 [3.9]	100 [3.9]	100 [3.9]	100 [3.9]	100 [3.9]	-	-	-	-	-	-	100 [3.9]	100 [3.9]	100 [3.9]	100 [3.9]
D4	457 [18.7]	457 [18.7]	457 [18.7]	550 [21.6]	725 [28.5]	891 [35]	891 [35]	891 [35]	947 [37.3]	947 [37.3]	555 [21.2]	555 [21.2]	555 [21.2]	590 [23.2]	590 [23.2]	590 [23.2]	903 [35.5]	1095 [43.1]	1095 [43.1]	1095 [43.1]
Ø d	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6
Weight kg [lbs]	18 [39.6]	22 [48.5]	22.2 [48.9]	34 [74.9]	59 [130]	75.4 [166.1]	80.2 [176.7]	86.5 [190.6]	109 [240.3]	109 [240.3]	28.6 [62.9]	28.6 [62.9]	31.6 [69.5]	47 [103.6]	47 [103.6]	47 [103.6]	83 [183]	118 [260.1]	118 [260.1]	131 [288.8]

Inverter Dissipation and Fan Flow

Dissipazione Inverter e Portata Ventilatori
Dissipation du Variateur et Débit des Ventilateurs

Frequenzumrichter-Verlustleistung und Lüfterleistung
Disipación del Convertidor de Frecuencia y Ventilación forzada

Drive Type	P _v Heat dissipation (f _{sw} =default; I ₂ =I _{2N}):				Airflow of fan		Minimum cooling opening	
	@U _{LN} =230 VAC	@U _{LN} =400 VAC	@U _{LN} =460 VAC	@U _{LN} =575 VAC	Internal fan	Heatsink fans	Control section	Heatsink
AGy-EV ... -4 / -4A (230V...480V)	W	W	W	W	m ³ / h	m ³ / h	cm ² (sq.inch)	cm ² (sq.inch)
1007	40	48.2	45	-	11	-	31 (4.8)	36 (5.6)
1015	70	77.5	72	-	11	30	31 (4.8)	36 (5.6)
1022	92	104	96.3	-	11	30	31 (4.8)	36 (5.6)
1030	121	138.3	126.7	-	11	30	31 (4.8)	36 (5.6)
2040	160	179.6	164.1	-	11	2x30	31 (4.8)	72 (11.1)
2055	184	230	215.6	-	11	2x30	31 (4.8)	72 (11.1)
2075	264	330	300.8	-	11	2x30	31 (4.8)	72 (11.1)
3110	304	380	340	-	30	2x79	36 (5.6)	128 (19.8)
3150	416	520	468	-	30	2x79	36 (5.6)	128 (19.8)
4185	448	546	490	-	-	80	-	2x150 (2x 23.5)
4220	526	658	582	-	-	80	-	2x150 (2x 23.5)
4300	691	864	780	-	-	170	-	2x200 (2x31)
4370	880	1100	1000	-	-	170	-	2x200 (2x31)
5450	1000	1250	1100	-	-	340	-	2x370 (2x57.35)
5550	1264	1580	1390	-	-	340	-	2x370 (2x57.35)
6750	1560	1950	1750	-	-	650	-	2x620 (2x96.1)
7900	1952	2440	2200	-	-	975	-	2x620 (2x96.1)
71100	2280	2850	2560	-	-	975	-	2x620 (2x96.1)
71320	2720	3400	3050	-	-	975	-	2x620 (2x96.1)
81600	-	4400	3950	-	-	1820	-	2x1600 (2x48)
82000	-	5400	4700	-	-	2000	-	2x1600 (2x48)

AGy-EV ... -5 (575V)	W	W	W	W	m ³ / h	m ³ / h	cm ² (sq.inch)	cm ² (sq.inch)
2002	-	-	-	75	11	30	31 (4.8)	72 (11.1)
2003	-	-	-	80	11	30	31 (4.8)	72 (11.1)
2005	-	-	-	128	11	2x30	31 (4.8)	72 (11.1)
3007	-	-	-	215	30	2x79	36 (5.6)	128 (19.8)
3010	-	-	-	266	30	2x79	36 (5.6)	128 (19.8)
3015	-	-	-	338	30	2x79	36 (5.6)	2x150 (2x 23.5)
3020	-	-	-	453	30	2x79	36 (5.6)	2x200 (2x31)
4025	-	-	-	515	-	2x80	-	2x200 (2x31)
4030	-	-	-	620	-	2x80	-	2x370 (2x57.35)
4040	-	-	-	810	-	170	-	2x370 (2x57.35)
5050	-	-	-	1070	-	340	-	2x370 (2x57.35)
5060	-	-	-	1155	-	340	-	2x370 (2x57.35)
5075	-	-	-	1480	-	340	-	2x370 (2x57.35)
6100	-	-	-	2150	-	650	-	2x620 (2x96.1)
7125	-	-	-	2760	-	975	-	2x620 (2x96.1)
7150	-	-	-	2760	-	975	-	2x620 (2x96.1)
8200	-	-	-	3250	-	975	-	2x620 (2x96.1)

AGy-EV...-4 Series

-  3 x 230VAC...480VAC power supplies (factory set for 400VAC-50Hz), KBG-1 keypad
-  Alimentazione 3 x 230VAC...480VAC (impostazione di fabbrica per 400VAC-50Hz), Tastiera a led KBG-1
-  Alimentation 3 x 230VCA...480VCA (paramétrage en usine pour 400VAC-50Hz), Console à voyants KBG-1
-  Versorgung 3 x 230VAC...480VAC (werkseitige Einstellung für 400VAC-50Hz), Bedieneinheit mit KBG-1
-  Alimentación 3 x 230VAC...480VAC (ajuste de fábrica a 400VAC-50Hz), teclado KBG-1 LED



Code	Type	Rated power @ 400VAc	Standard settings
S9Z40	AGy-EV1007-KBX-4	0.75 kW	Braking unit
S9Z41	AGy-EV1015-KBX-4	1.5 kW	Braking unit
S9Z42	AGy-EV1022-KBX-4	2.2 kW	Braking unit
S9Z43	AGy-EV1030-KBX-4	3 kW	Braking unit
S9Z44	AGy-EV2040-KBX-4	4 kW	Braking unit
S9Z45	AGy-EV2055-KBX-4	5.5 kW	Braking unit
S9Z46	AGy-EV2075-KBX-4	7.5 kW	Braking unit
S9Z47	AGy-EV3110-KBX-4	11 kW	Braking unit
S9Z48	AGy-EV3150-KBX-4	15 kW	Braking unit
S9Z50	AGy-EV4185-KBX-4	18.5 kW	Braking unit
S9Z52	AGy-EV4220-KBX-4	22 kW	Braking unit
S9Z54	AGy-EV4300-KBX-4	30 kW	Braking unit
S9Z56	AGy-EV4370-KBX-4	37 kW	Braking unit
S9Z58	AGy-EV5450-KBX-4	45 kW	Braking unit
S9Z60	AGy-EV5550-KBX-4	55 kW	Braking unit
S9Z49	AGy-EV4185-KXX-4	18.5 kW	
S9Z51	AGy-EV4220-KXX-4	22 kW	
S9Z53	AGy-EV4300-KXX-4	30 kW	
S9Z55	AGy-EV4370-KXX-4	37 kW	
S9Z57	AGy-EV5450-KXX-4	45 kW	
S9Z59	AGy-EV5550-KXX-4	55 kW	
S9Z61	AGy-EV6750-KXX-4	75 kW	
S9Z62	AGy-EV7900-KXX-4	90 kW	
S9Z63	AGy-EV71100-KXX-4	110 kW	
S9Z64	AGy-EV71320-KXX-4	132 kW	
S9Z65	AGy-EV81600-KXX-4	160 kW	
S9Z66	AGy-EV82000-KXX-4	200 kW	

AGy-EV...-4-C Series

-  3 x 230VAC...480VAC power supplies (factory set for 400VAC-50Hz), KBG-1 keypad
-  Alimentazione 3 x 230VAC...480VAC (impostazione di fabbrica per 400VAC-50Hz), Tastiera a led KBG-1
-  Alimentation 3 x 230VCA...480VCA (paramétrage en usine pour 400VAC-50Hz), Console à voyants KBG-1
-  Versorgung 3 x 230VAC...480VAC (werkseitige Einstellung für 400VAC-50Hz), Bedieneinheit mit KBG-1
-  Alimentación 3 x 230VAC...480VAC (ajuste de fábrica a 400VAC-50Hz), teclado KBG-1 LED



Code	Type	Rated power @ 400VAc	Standard settings
S9I40	AGy-EV1007-KBX-4-C	0.75 kW	Braking unit, CANopen/DeviceNet
S9I41	AGy-EV1015-KBX-4-C	1.5 kW	Braking unit, CANopen/DeviceNet
S9I42	AGy-EV1022-KBX-4-C	2.2 kW	Braking unit, CANopen/DeviceNet
S9I43	AGy-EV1030-KBX-4-C	3 kW	Braking unit, CANopen/DeviceNet
S9I44	AGy-EV2040-KBX-4-C	4 kW	Braking unit, CANopen/DeviceNet
S9I45	AGy-EV2055-KBX-4-C	5.5 kW	Braking unit, CANopen/DeviceNet
S9I46	AGy-EV2075-KBX-4-C	7.5 kW	Braking unit, CANopen/DeviceNet
S9I47	AGy-EV3110-KBX-4-C	11 kW	Braking unit, CANopen/DeviceNet
S9I48	AGy-EV3150-KBX-4-C	15 kW	Braking unit, CANopen/DeviceNet
S9I50	AGy-EV4185-KBX-4-C	18.5 kW	Braking unit, CANopen/DeviceNet
S9I52	AGy-EV4220-KBX-4-C	22 kW	Braking unit, CANopen/DeviceNet
S9I54	AGy-EV4300-KBX-4-C	30 kW	Braking unit, CANopen/DeviceNet
S9I56	AGy-EV4370-KBX-4-C	37 kW	Braking unit, CANopen/DeviceNet
S9I58	AGy-EV5450-KBX-4-C	45 kW	Braking unit, CANopen/DeviceNet
S9I60	AGy-EV5550-KBX-4-C	55 kW	Braking unit, CANopen/DeviceNet

(to be continued)

Code	Type	Rated power @ 400V _{ac}	Standard settings
S9I49	AGy-EV4185-KXX-4-C	18.5 kW	CANopen/DeviceNet
S9I51	AGy-EV4220-KXX-4-C	22 kW	CANopen/DeviceNet
S9I53	AGy-EV4300-KXX-4-C	30 kW	CANopen/DeviceNet
S9I55	AGy-EV4370-KXX-4-C	37 kW	CANopen/DeviceNet
S9I57	AGy-EV5450-KXX-4-C	45 kW	CANopen/DeviceNet
S9I59	AGy-EV5550-KXX-4-C	55 kW	CANopen/DeviceNet
S9I61	AGy-EV6750-KXX-4-C	75 kW	CANopen/DeviceNet
S9I62	AGy-EV7900-KXX-4-C	90 kW	CANopen/DeviceNet
S9I63	AGy-EV71100-KXX-4-C	110 kW	CANopen/DeviceNet
S9I64	AGy-EV71320-KXX-4-C	132 kW	CANopen/DeviceNet
S9I65	AGy-EV81600-KXX-4-C	160 kW	CANopen/DeviceNet
S9I66	AGy-EV82000-KXX-4-C	200 kW	CANopen/DeviceNet

AGy-EV...-4A Series

-  3 x 230V_{ac}...480V_{ac} power supplies (factory set for 460V_{ac}-60Hz), KB-EV-LCD / F (S5K07) LCD keypad
 Alimentazione 3 x 230V_{ca}...480V_{ca} (impostazione di fabbrica per 460V_{ca}-60Hz), tastiera a LCD KB-EV-LCD / F (S5K07)
 Alimentation 3 x 230V_{ca}...480V_{ca} (paramétrage en usine pour 460V_{ca}-60Hz), console à LCD KB-EV-LCD / F (S5K07)
 Versorgung 3 x 230V_{ac}...480V_{ac} (werkseitige Einstellung für 460V_{ac}-60Hz), LCD-Bedieneinheit KB-EV-LCD / F (S5K07)
 Alimentación 3 x 230V_{ca}...480V_{ca} (ajuste de fábrica a 460V_{ca}-60Hz), teclado KB-EV-LCD / F (S5K07) LCD



Code	Type	Rated power @ 460V _{ac}	Standard settings
S940Z	AGy-EV1007-KBX-4A	0.75 kW	Braking unit
S941Z	AGy-EV1015-KBX-4A	1.5 kW	Braking unit
S942Z	AGy-EV1022-KBX-4A	2.2 kW	Braking unit
S943Z	AGy-EV1030-KBX-4A	3 kW	Braking unit
S944Z	AGy-EV2040-KBX-4A	4 kW	Braking unit
S945Z	AGy-EV2055-KBX-4A	5.5 kW	Braking unit
S946Z	AGy-EV2075-KBX-4A	7.5 kW	Braking unit
S947Z	AGy-EV3110-KBX-4A	11 kW	Braking unit
S948Z	AGy-EV3150-KBX-4A	15 kW	Braking unit
S950Z	AGy-EV4185-KBX-4A	18.5 kW	Braking unit
S952Z	AGy-EV4220-KBX-4A	22 kW	Braking unit
S954Z	AGy-EV4300-KBX-4A	30 kW	Braking unit
S956Z	AGy-EV4370-KBX-4A	37 kW	Braking unit
S958Z	AGy-EV5450-KBX-4A	45 kW	Braking unit
S960Z	AGy-EV5550-KBX-4A	55 kW	Braking unit
S949Z	AGy-EV4185-KXX-4A	18.5 kW	
S951Z	AGy-EV4220-KXX-4A	22 kW	
S953Z	AGy-EV4300-KXX-4A	30 kW	
S955Z	AGy-EV4370-KXX-4A	37 kW	
S957Z	AGy-EV5450-KXX-4A	45 kW	
S959Z	AGy-EV5550-KXX-4A	55 kW	
S961Z	AGy-EV6750-KXX-4A	75 kW	
S962Z	AGy-EV7900-KXX-4A	90 kW	
S963Z	AGy-EV71100-KXX-4A	110 kW	
S964Z	AGy-EV71320-KXX-4A	132 kW	
S965Z	AGy-EV81600-KXX-4A	160 kW	
S966Z	AGy-EV82000-KXX-4A	200 kW	

AGy-EV...-4A-C Series

-  3 x 230V_{ac}...480V_{ac} power supplies (factory set for 460V_{ac}-60Hz), KB-EV-LCD / F (S5K07) LCD keypad
 Alimentazione 3 x 230V_{ca}...480V_{ca} (impostazione di fabbrica per 460V_{ca}-60Hz), tastiera a LCD KB-EV-LCD / F (S5K07)
 Alimentation 3 x 230V_{ca}...480V_{ca} (paramétrage en usine pour 460V_{ca}-60Hz), console à LCD KB-EV-LCD / F (S5K07)
 Versorgung 3 x 230V_{ac}...480V_{ac} (werkseitige Einstellung für 460V_{ac}-60Hz), LCD-Bedieneinheit KB-EV-LCD / F (S5K07)
 Alimentación 3 x 230V_{ca}...480V_{ca} (ajuste de fábrica a 460V_{ca}-60Hz), teclado KB-EV-LCD / F (S5K07) LCD

Code	Type	Rated power @ 460V _{ac}	Standard settings
S940I	AGy-EV1007-KBX-4A-C	0.75 kW	Braking unit, CANopen/DeviceNet
S941I	AGy-EV1015-KBX-4A-C	1.5 kW	Braking unit, CANopen/DeviceNet
S942I	AGy-EV1022-KBX-4A-C	2.2 kW	Braking unit, CANopen/DeviceNet
S943I	AGy-EV1030-KBX-4A-C	3 kW	Braking unit, CANopen/DeviceNet
S944I	AGy-EV2040-KBX-4A-C	4 kW	Braking unit, CANopen/DeviceNet

(to be continued)



Code	Type	Rated power @ 460V _{ac}	Standard settings
S945I	AGy-EV2055-KBX-4A-C	5.5 kW	Braking unit, CANopen/DeviceNet
S946I	AGy-EV2075-KBX-4A-C	7.5 kW	Braking unit, CANopen/DeviceNet
S947I	AGy-EV3110-KBX-4A-C	11 kW	Braking unit, CANopen/DeviceNet
S948I	AGy-EV3150-KBX-4A-C	15 kW	Braking unit, CANopen/DeviceNet
S950I	AGy-EV4185-KBX-4A-C	18.5 kW	Braking unit, CANopen/DeviceNet
S952I	AGy-EV4220-KBX-4A-C	22 kW	Braking unit, CANopen/DeviceNet
S954I	AGy-EV4300-KBX-4A-C	30 kW	Braking unit, CANopen/DeviceNet
S956I	AGy-EV4370-KBX-4A-C	37 kW	Braking unit, CANopen/DeviceNet
S958I	AGy-EV5450-KBX-4A-C	45 kW	Braking unit, CANopen/DeviceNet
S960I	AGy-EV5550-KBX-4A-C	55 kW	Braking unit, CANopen/DeviceNet
S949I	AGy-EV4185-KXX-4A-C	18.5 kW	CANopen/DeviceNet
S951I	AGy-EV4220-KXX-4A-C	22 kW	CANopen/DeviceNet
S953I	AGy-EV4300-KXX-4A-C	30 kW	CANopen/DeviceNet
S955I	AGy-EV4370-KXX-4A-C	37 kW	CANopen/DeviceNet
S957I	AGy-EV5450-KXX-4A-C	45 kW	CANopen/DeviceNet
S959I	AGy-EV5550-KXX-4A-C	55 kW	CANopen/DeviceNet
S961I	AGy-EV6750-KXX-4A-C	75 kW	CANopen/DeviceNet
S962I	AGy-EV7900-KXX-4A-C	90 kW	CANopen/DeviceNet
S963I	AGy-EV71100-KXX-4A-C	110 kW	CANopen/DeviceNet
S964I	AGy-EV71320-KXX-4A-C	132 kW	CANopen/DeviceNet
S965I	AGy-EV81600-KXX-4A-C	160 kW	CANopen/DeviceNet
S966I	AGy-EV82000-KXX-4A-C	200 kW	CANopen/DeviceNet

AGy-EV...-5 Series

- 3 x 575V_{ac} power supplies (factory set for 575V_{ac}-60Hz), KBG-LCD-A2 (S5KP9) LCD keypad
- Alimentazione 3 x 575V_{ac} (impostazione di fabbrica per 575V_{ac}-60Hz), tastiera a LCD KBG-LCD-A2 (S5KP9)
- Alimentation 3 x 575V_{ac} (paramétrage en usine pour 575V_{ac}-60Hz), console à LCD KBG-LCD-A2 (S5KP9)
- Versorgung 3 x 575V_{ac} (werkseitige Einstellung für 575V_{ac}-60Hz), LCD-Bedieneinheit KBG-LCD-A2 (S5KP9)
- Alimentación 3 x 575V_{ac} (ajuste de fábrica a 575V_{ac}-60Hz), teclado KBG-LCD-A2 (S5KP9) LCD



Code	Type	Rated power @ 575V _{ac}	Standard settings
S9AI0	AGy-EV2002-KBX-5	2 Hp	Braking unit
S9AI1	AGy-EV2003-KBX-5	3 Hp	Braking unit
S9AI2	AGy-EV2005-KBX-5	5 Hp	Braking unit
S9AI3	AGy-EV3007-KBX-5	7 Hp	Braking unit
S9AI4	AGy-EV3010-KBX-5	10 Hp	Braking unit
S9AI5	AGy-EV3015-KBX-5	15 Hp	Braking unit
S9AI6	AGy-EV3020-KBX-5	20 Hp	Braking unit
S9AI8	AGy-EV4025-KBX-5	25 Hp	Braking unit
S9AL0	AGy-EV4030-KBX-5	30 Hp	Braking unit
S9AL2	AGy-EV4040-KBX-5	40 Hp	Braking unit
S9AL4	AGy-EV5050-KBX-5	50 Hp	Braking unit
S9AL6	AGy-EV5060-KBX-5	60 Hp	Braking unit
S9AL8	AGy-EV5075-KBX-5	75 Hp	Braking unit
S9AI7	AGy-EV4025-KXX-5	25 Hp	
S9AI9	AGy-EV4030-KXX-5	30 Hp	
S9AL1	AGy-EV4040-KXX-5	40 Hp	
S9AL3	AGy-EV5050-KXX-5	50 Hp	
S9AL5	AGy-EV5060-KXX-5	60 Hp	
S9AL7	AGy-EV5075-KXX-5	75 Hp	
S9AL9	AGy-EV6100-KXX-5	100 Hp	
S9AM0	AGy-EV7125-KXX-5	125 Hp	
S9AM1	AGy-EV7150-KXX-5	150 Hp	
S9AM2	AGy-EV8200-KXX-5	200 Hp	

AGy-EV...-5-C Series

-  3 x 575V_{AC} power supplies (factory set for 575V_{AC}-60Hz), KBG-LCD-A2 (S5KP9) LCD keypad
 Alimentazione 3 x 575V_{AC} (impostazione di fabbrica per 575V_{AC}-60Hz), tastiera a LCD KBG-LCD-A2 (S5KP9)
 Alimentation 3 x 575V_{CA} (paramétrage en usine pour 575V_{CA}-60Hz), console à LCD KBG-LCD-A2 (S5KP9)
 Versorgung 3 x 575V_{AC} (werkseitige Einstellung für 575V_{AC}-60Hz), LCD-Bedieneinheit KBG-LCD-A2 (S5KP9)
 Alimentación 3 x 575V_{AC} (ajuste de fábrica a 575V_{AC}-60Hz), teclado KBG-LCD-A2 (S5KP9) LCD



Code	Type	Rated power @ 575V _{AC}	Standard settings
S9AE0	AGy-EV2002-KBX-5-C	2 Hp	Braking unit CANopen/DeviceNet
S9AE1	AGy-EV2003-KBX-5-C	3 Hp	Braking unit CANopen/DeviceNet
S9AE2	AGy-EV2005-KBX-5-C	5 Hp	Braking unit CANopen/DeviceNet
S9AE3	AGy-EV3007-KBX-5-C	7 Hp	Braking unit CANopen/DeviceNet
S9AE4	AGy-EV3010-KBX-5-C	10 Hp	Braking unit, CANopen/DeviceNet
S9AE5	AGy-EV3015-KBX-5-C	15 Hp	Braking unit, CANopen/DeviceNet
S9AE6	AGy-EV3020-KBX-5-C	20 Hp	Braking unit, CANopen/DeviceNet
S9AE8	AGy-EV4025-KBX-5-C	25 Hp	Braking unit, CANopen/DeviceNet
S9AF0	AGy-EV4030-KBX-5-C	30 Hp	Braking unit, CANopen/DeviceNet
S9AF2	AGy-EV4040-KBX-5-C	40 Hp	Braking unit, CANopen/DeviceNet
S9AF4	AGy-EV5050-KBX-5-C	50 Hp	Braking unit, CANopen/DeviceNet
S9AF6	AGy-EV5060-KBX-5-C	60 Hp	Braking unit, CANopen/DeviceNet
S9AF8	AGy-EV5075-KBX-5-C	75 Hp	Braking unit, CANopen/DeviceNet
S9AE7	AGy-EV4025-KXX-5-C	25 Hp	CANopen/DeviceNet
S9AE9	AGy-EV4030-KXX-5-C	30 Hp	CANopen/DeviceNet
S9AF1	AGy-EV4040-KXX-5-C	40 Hp	CANopen/DeviceNet
S9AF3	AGy-EV5050-KXX-5-C	50 Hp	CANopen/DeviceNet
S9AF5	AGy-EV5060-KXX-5-C	60 Hp	CANopen/DeviceNet
S9AF7	AGy-EV5075-KXX-5-C	75 Hp	CANopen/DeviceNet
S9AF9	AGy-EV6100-KXX-5-C	100 Hp	CANopen/DeviceNet
S9AG0	AGy-EV7125-KXX-5-C	125 Hp	CANopen/DeviceNet
S9AG1	AGy-EV7150-KXX-5-C	150 Hp	CANopen/DeviceNet
S9AG2	AGy-EV8200-KXX-5-C	200 Hp	CANopen/DeviceNet

Input Side External Fuses (F1)

Without three-phase choke

Fusibili Esterni Lato Ingresso,
senza Induttore Trifase

Fusibles Réseau Externes
sans Inductance Triphasée

Externe Sicherungen Eingangsseite,
ohne dreiphasige Netzdrossel

Fusibles Externos del Lado de Alimentación
de Red, sin Inductancia Trifásica

AGy-EV... -4/4A (230...480V)	EUROPE		America	
Drive type	Fuse type	Fuse code	Fuse type	Fuse code
AGy-EV1007	GRD2/10	F4D13	FWP10	S7G49
AGy-EV1015	GRD2/10	F4D13	FWP10	S7G49
AGy-EV1022	GRD2/16	F4D14	FWP20	S7G48
AGy-EV1030	GRD2/16	F4D14	FWP20	S7G48
AGy-EV2040	GRD2/20	F4D15	FWP20	S7G48
AGy-EV2055	GRD2/25	F4D16	FWP25	S7G51
AGy-EV2075	GRD3/35	F4D20	FWP35	S7G86
AGy-EV3110	GRD3/50	F4D21	FWP40	S7G52
AGy-EV3150	GRD3/50	F4D21	FWP40	S7G52
AGy-EV4185 ... 82000	(*)		(*)	

(*): For these types an external choke is mandatory if the AC input impedance is equal or less than 1%.

(*): Per questi modelli l'induttanza esterna è obbligatoria se l'impedenza della rete è uguale o inferiore all'1%.

(*): Pour ces tailles, une inductance externe est requise si l'impédance du réseau est inférieure ou égale à 1%.

(*): Fuer diese Modelle ist die Netzdrossel notwendig, falls die Netzimpedance gleich bzw. kleiner 1% ist.

(*): Para estos modelos, la inductancia externa es obligatoria si la impedancia de la red es igual o inferior al 1%.

With three-phase choke

Fusibili Esterni Lato Ingresso,
con Induttore Trifase

Fusibles Réseau Externes
avec Inductance Triphasée

Externe Sicherungen Eingangsseite,
mit dreiphasiger Netzdrossel

Fusibles Externos del Lado de Alimentación
de Red, con Inductancia Trifásica

AGy-EV... -4/4A (230...480V)	EUROPE		America	
Drive type	Fuse type	Fuse code	Fuse type	Fuse code
AGy-EV1007	GRD2/10	F4D13	FWP10	S7G49
AGy-EV1015	GRD2/10	F4D13	FWP10	S7G49
AGy-EV1022	GRD2/10	F4D13	FWP10	S7G49
AGy-EV1030	GRD2/16	F4D14	FWP20	S7G48
AGy-EV2040	GRD2/16	F4D14	FWP20	S7G48
AGy-EV2055	GRD2/20	F4D15	FWP20	S7G48
AGy-EV2075	GRD2/25	F4D16	FWP25	S7G51
AGy-EV3110	GRD3/50	F4D21	FWP35	S7G86
AGy-EV3150	GRD3/50	F4D21	FWP40	S7G52
AGy-EV4185	GRD3/50	F4D21	FWP50	S7G53
AGy-EV4220	GRD3/50	F4D21	FWP50	S7G53
AGy-EV4300	S00C + /üf1/80/80A/660V	F4EAF	FWP80	S7G54
AGy-EV4370	S00C + /üf1/80/100A/660V	F4EAG	FWP100	S7G55
AGy-EV5450	S00C + /üf1/80/160A/660V	F4EAL	FWP175	S7G57
AGy-EV5550	S00C + /üf1/80/160A/660V	F4EAL	FWP175	S7G57
AGy-EV6750	S1üf1/110/250A/660V	F4G28	FWP300	S7G57
AGy-EV7900	S1üf1/110/250A/660V	F4G28	FWP300	S7G57
AGy-EV71100	S2üf1/110/400A/660V	F4G34	FWP400	S7G62
AGy-EV71320	S2üf1/110/400A/660V	F4G34	FWP400	S7G62
AGy-EV81600	S2üf1/110/400A/660V	F4G34	FWP400	S7G62
AGy-EV82000	S2üf1/110/500A/660V		FWP500	

With or without three-phase choke on AC input

Fusibili Esterni Lato Ingresso, Collegamento
con o senza Induttore Trifase

Fusibles Réseaux Externes, utilisation avec
ou sans Inductance Triphasée

Externe Sicherungen Eingangsseite, Anschluss
mit oder ohne dreiphasige Netzdrossel

Fusibles Externos del Lado de Alimentación de
Red, Inductancia Trifásica Opcional

AGy-EV ... -5 (575V)	EUROPE		America	
Drive type	Fuse type	Fuse code	Fuse type	Fuse code
AGy-EV2002	GRD2/10	F4D13	FWP10A14F	S7G49
AGy-EV2003	GRD2/10	F4D13	FWP10A14F	S7G49
AGy-EV2005	GRD2/16	F4D14	FWP15	S848B
AGy-EV3007	GRD2/25	F4D16	FWP25	S7G51
AGy-EV3010	Z14GR32	F4M11	FWP30A14F	S7I50
AGy-EV3015	GRD3/50	F4D21	FWP40	S7G52
AGy-EV3020	GRD3/50	F4D21	FWP50	S7G49
AGy-EV4025	GRD3/50	F4D21	FWP50	S7G49
AGy-EV4030	GRD3/50	F4D21	FWP50	S7G49
AGy-EV4040	Z22GR63	F4M17	FWP60B	S7I34
AGy-EV5050	S00C + /üf1/80/80A/660V	F4EAF	FWP80	S7G54
AGy-EV5060	S00C + /üf1/80/100A/660V	F4EAG	FWP100	S7G55
AGy-EV5075	S00C + /üf1/80/125A/660V	F4EAL	FWP125	S849B
AGy-EV6100	S00C + /üf1/80/160A/660V	F4EAL	FWP150	S7G56
AGy-EV7125	S1üf1/110/250A/660V	F4G28	FWP200	S7G58
AGy-EV7150	S1üf1/110/250A/660V	F4G28	FWP250	S7G59
AGy-EV8200	S2üf1/110/400A/660V	F4G34	A70P400	S7G62

External Fuses for a DC Connection

Fusibili Esterni per la Connessione DC
Fusibles Externes pour Raccordement sur Bus DC
Externe Sicherungen für DC-Anschluss
Fusibles Externos para Conexión en CC

AGy-EV... -4/4A (230...480V)	EUROPE		America	
Drive type	Fuse type	Fuse code	Fuse type	Fuse code
AGy-EV1007	Z14GR6	F4M01	FWP10A14F	S7G49
AGy-EV1015	Z14GR10	F4M03	FWP10A14F	S7G49
AGy-EV1022	Z14GR10	F4M03	FWP10A14F	S7G49
AGy-EV1030	Z14GR16	F4M05	FWP20A14F	S7G48
AGy-EV2040	Z14GR16	F4M05	FWP20A14F	S7G48
AGy-EV2055	Z14GR20	F4M07	FWP20A14F	S7G48
AGy-EV2075	Z14GR32	F4M11	FWP30A14F	S7I50
AGy-EV3110	Z14GR40	F4M13	FWP40B	S7G52
AGy-EV3150	Z22GR63	F4M17	FWP60B	S7I34
AGy-EV4185	S00C+/üf1/80/80A/660V	F4EAF	FWP80	S7G54
AGy-EV4220	S00C+/üf1/80/80A/660V	F4EAF	FWP80	S7G54
AGy-EV4300	S00C+/üf1/80/100A/660V	F4EAG	FWP100	S7G55
AGy-EV4370	S00C+/üf1/80/125A/660V	F4EAJ	FWP150	S7G56
AGy-EV5450	S00C+/üf1/80/160A/660V	F4EAL	FWP175	S7G57
AGy-EV5550	S00üF1/80/200A/660V	F4G23	FWP200	S7G58
AGy-EV6750	S1üF1/110/250A/660V	F4G28	FWP250	S7G59
AGy-EV7900	S1üF1/110/315A/660V	F4G30	FWP350	S7G61
AGy-EV71100	S1üF1/110/400A/660V	F4G34	FWP400	S7G62
AGy-EV71320	S1üF1/110/500A/660V	F4E30	FWP500	S7G63
AGy-EV81600	S1üF1/110/500A/660V	F4E30	FWP500	S7G63
AGy-EV82000	S1üF1/110/600A/660V		FWP600	S7G65

AGy-EV ... -5 (575V)	EUROPE		America	
Drive type	Fuse type	Fuse code	Fuse type	Fuse code
AGy-EV2002			A100P15	S85A0
AGy-EV2003			A100P15	S85A0
AGy-EV2005			A100P20	S85A1
AGy-EV3007			A100P30	S85A2
AGy-EV3010			FWJ35	S85A3
AGy-EV3015			FWJ50	S85A4
AGy-EV3020			FWJ60	S85A5
AGy-EV4025			FWJ60	S85A5
AGy-EV4030			FWJ70	S85A6
AGy-EV4040			FWJ80	S85A7
AGy-EV5050			FWJ100	S85A8
AGy-EV5060			FWJ125	S85A9
AGy-EV5075			FWJ150	S85B0
AGy-EV6100			FWJ200	S85B1
AGy-EV7125			FWJ250	S85B2
AGy-EV7150			FWJ250	S85B2
AGy-EV8200			FWJ400	S85B4



The fuse technical data, such as dimensions, weights, dissipated power, heat etc. can be found in the relevant fuse manufacturer catalogues (GRD..., S..., Z...= Jean Muller; FWP...= Bussmann; A100...=Gould Shawmut).



I dati tecnici dei fusibili, come ad esempio dimensioni, peso, dissipazione, calore, ecc. sono disponibili nei relativi cataloghi del costruttore fusibili (GRD..., S..., Z...= Jean Muller; FWP...= Bussmann; A100...=Gould Shawmut).



Les caractéristiques techniques des fusibles telles que, les dimensions, le poids, la dissipation, etc., sont indiquées dans les catalogues correspondants du fabricant de fusibles (GRD..., S..., Z...= Jean Muller; FWP...= Bussmann; A100...=Gould Shawmut).



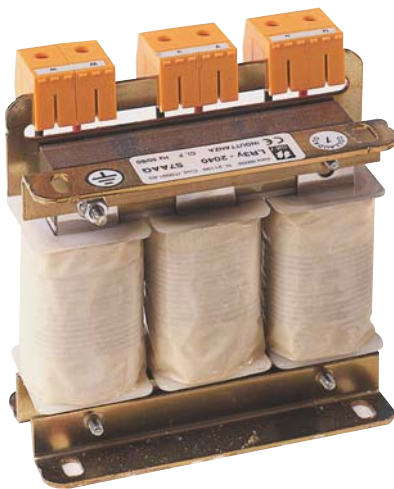
Die technischen Daten der Sicherungen, wie beispielsweise Abmessungen, Gewicht, Verlustleistung, Wärme, usw. sind den entsprechenden Katalogen der Sicherungshersteller zu entnehmen (GRD..., S..., Z...= Jean Muller; FWP...= Bussmann; A100...=Gould Shawmut).



Los datos técnicos de los fusibles, tales como dimensiones, peso, energía disipada, calor, etc. se pueden encontrar en los catálogos de fabricantes de fusibles (GRD..., S1..., Z...= Jean Muller; FWP...= Bussmann; A100...=Gould Shawmut).

Input Chokes

Induttanze di Rete
Inductances de Réseau
Netzdrosseln
Inductancia de Red



AGy-EV... -4/4A (230...480V)						
Drive type	Mains choke [mH]	Rated current [A]	Saturation current [A]	Frequency [Hz]	Model Number	Code
AGy-EV1007	6.1	2.5	5	50/60	LR3y-1007	S7AAD
AGy-EV1015	3.69	3.7	7.4	50/60	LR3y-1015	S7AAE
AGy-EV1022	2.71	5.5	11	50/60	LR3y-1022	S7AAF
AGy-EV1030	2.3	6.7	14	50/60	LR3y-1030	S7AB3
AGy-EV2040	1.63	8.7	18	50/60	LR3y-2040	S7AAG
AGy-EV2055	1.29	11.8	24.5	50/60	LR3y-2055	S7AB5
AGy-EV2075	0.89	17.4	36.5	50/60	LR3y-2075	S7AB6
AGy-EV3110	0.68	22.4	46.5	50/60	LR3y-3110	S7AB7
AGy-EV3150	0.51	30	61	50/60	LR3y-3150	S7AB8
AGy-EV4185	0.35	41	83	50/60	LR3-022	S7FF4
AGy-EV4220	0.35	41	83	50/60	LR3-022	S7FF4
AGy-EV4300	0.24	58	120	50/60	LR3-030	S7FF3
AGy-EV4370	0.18	71	145	50/60	LR3-037	S7FF2
AGy-EV5450	0.13	102	212	50/60	LR3-055	S7FF1
AGy-EV5550	0.13	102	212	50/60	LR3-055	S7FF1
AGy-EV6750	0.148	173	350	50/60	LR3-090	S7D19
AGy-EV7900	0.148	173	350	50/60	LR3-090	S7D19
AGy-EV71100	0.085	297	600	50/60	LR3-160	S7D40
AGy-EV71320	0.085	297	600	50/60	LR3-160	S7D40
AGy-EV81600	0.085	297	600	50/60	LR3-160	S7D40
AGy-EV82000	0.085	380	710	50/60	LR3-200	S7AE9

AGy-EV ... -5 (575V)						
Drive type	Mains choke [mH]	Rated current [A]	Saturation current [A]	Frequency [Hz]	Model Number	Code
AGy-EV2002	4.5	4.2	8.4	50/60	LR3y-5-002	S7AD0
AGy-EV2003	3.8	5.2	10.4	50/60	LR3y-5-003	S7AD2
AGy-EV2005	2.3	8.1	16.2	50/60	LR3y-5-005	S7AD3
AGy-EV3007	1.5	12.9	25.8	50/60	LR3y-5-007	S7AC7
AGy-EV3010	1.2	16.5	33.0	50/60	LR3y-5-010	S7AC8
AGy-EV3015	0.9	21.8	43.6	50/60	LR3y-5-015	S7AC9
AGy-EV3020	0.7	28.5	57	50/60	LR3y-5-020	S7AD1

(*)

Refer to the Appendix for choke weights and dimensions.
Per le dimensioni e i pesi delle induttanze vedere Appendice.

Pour les dimensions et les poids des inductances voir Appendice

Für die Abmessungen und Gewichte der Netzdrosseln siehe Anhang.

Ver el Apéndice para dimensiones y pesos de las inductancias.



Use of a mains choke thereby restricting the RMS input current, results in improved longevity of the intermediate circuit capacitors and increased reliability of the rectifier bridge. It also helps attenuate harmonic network distortion.

(*) AGy-EV4025 ... AGy-EV8200 : Integrated DC link inductance into the drive.



L'impiego dell'induttanza di rete limitando la corrente RMS in ingresso, consente di aumentare la vita dei condensatori del circuito intermedio e l'affidabilità del ponte raddrizzatore, nonché di attenuare le distorsioni armoniche in rete.

(*) AGy-EV4025 ... AGy-EV8200 : Induttanza su DC link integrata.



L'utilisation de l'inductance de réseau, limitant le courant RMS à l'entrée, permet d'augmenter la vie des condensateurs du circuit intermédiaire et la fiabilité du pont redresseur, ainsi que d'atténuer les distorsions harmoniques sur le réseau.

(*) AGy-EV4025 ... AGy-EV8200 : Inductance sur bus DC intégrée.



Durch den Einsatz der Netzdrossel wird der Blindstrom im Eingang begrenzt, wodurch eine längere Lebensdauer der Kondensatoren im Zwischenkreis ermöglicht und die Zuverlässigkeit der Gleichrichterbrücke erhöht wird; weiters werden die harmonischen Verzerrungen im Netz abgeschwächt.

(*) AGy-EV4025 ... AGy-EV8200 : Integrierte Drossel im DC-Link.



El uso de una inductancia de red que restrinja la corriente de entrada RMS, tiene como resultado una mejora en la duración de la capacidad intermedia de los circuitos y un incremento de la fiabilidad del puente rectificador. También atenúa la distorsión armónica de la red.

(*) AGy-EV4025 ... AGy-EV8200 : Inductancia en el Bus de CC integrada.

Output Chokes

Induttanze di Uscita
Inductances de Sortie
Ausgangsdrosseln
Inductancia de Salida

AGy-EV... -4/4A (230...480V)					
Drive type	Rated choke [mH]	Rated current [A]	Saturation current [A]	Model Number	Code
AGy-EV1007	1.4	9.5	20	LU3-001	S7FG1
AGy-EV1015	1.4	9.5	20	LU3-001	S7FG1
AGy-EV1022	1.4	9.5	20	LU3-003	S7FG2
AGy-EV1030	1.4	9.5	20	LU3-003	S7FG2
AGy-EV2040	0.87	16	34	LU3-005	S7FG3
AGy-EV2055	0.87	16	34	LU3-005	S7FG3
AGy-EV2075	0.51	27	57	LU3-011	S7FG4
AGy-EV3110	0.51	27	57	LU3-011	S7FG4
AGy-EV3150	0.43	32	68	LU3-015	S7FM2
AGy-EV4185	0.33	42	72	LU3-022	S7FH3
AGy-EV4220	0.33	42	72	LU3-022	S7FH3
AGy-EV4300	0.24	58	100	LU3-030	S7FH4
AGy-EV4370	0.18	76	130	LU3-037	S7FH5
AGy-EV5450	0.12	110	192	LU3-055	S7FH6
AGy-EV5550	0.12	110	192	LU3-055	S7FH6
AGy-EV6750	0.07	180	310	LU3-090	S7FH7
AGy-EV7900	0.07	180	310	LU3-090	S7FH7
AGy-EV71100	0.041	310	540	LU3-160	S7FH8
AGy-EV71320	0.041	310	540	LU3-160	S7FH8
AGy-EV81600	0.041	310	540	LU3-160	S7FH8
AGy-EV82000	For information refer to Gefran-Siei commercial Offices			LU3-200	S7AF0

AGy-EV ... -5 (575V)					
Drive type	Rated choke [mH]	Rated current [A]	Saturation current [A]	Model Number	Code
AGy-EV2002	3	4.5	8.5	LU3-5-003	S7FI2
AGy-EV2003	3	4.5	8.5	LU3-5-003	S7FI2
AGy-EV2005	1.9	7	13	LU3-5-005	S7FI3
AGy-EV3007	1	13,8	25.3	LU3-5-010	S7FI4
AGy-EV3010	1	13,8	25.3	LU3-5-010	S7FI4
AGy-EV3015	0.64	24,2	44.3	LU3-5-020	S7FI5
AGy-EV3020	0.64	24,2	44.3	LU3-5-020	S7FI5
AGy-EV4025	0.51	30	54.9	LU3-5-025	S7FI6
AGy-EV4030	0.43	36	65.9	LU3-5-030	S7FI7
AGy-EV4040	0.34	46	84.2	LU3-5-040	S7FI8
AGy-EV5050	0.27	58	106.1	LU3-5-050	S7FI9
AGy-EV5060	0.22	69	126.3	LU3-5-060	S7FL0
AGy-EV5075	0.18	86	157.4	LU3-5-075	S7FL1
AGy-EV6100	0.14	109	200	LU3-5-100	S7FL4
AGy-EV7125	0.11	158	290	LU3-5-150	S7FL5
AGy-EV7150	0.11	158	290	LU3-5-150	S7FL5
AGy-EV8200	0.070	220	403	LU3-5-200	S7FL6

Refer to the Appendix for choke weights and dimensions.
Per le dimensioni e i pesi delle induttanze vedere Appendice.

Pour les dimensions et les poids des inductances voir Appendice

Für die Abmessungen und Gewichte der Netzdrosseln siehe Anhang.

Ver el Apéndice para dimensiones y pesos de las inductancias.



When controlled by inverters and connected over excessive distances (usually anything in excess of 100 metres), standard motors might require use of an output choke to help maintain the voltage waveform within acceptable limits.



I motori standard, se controllati tramite inverter e collegati a distanze eccessive (solitamente oltre i 100 metri) possono richiedere un induttore d'uscita, allo scopo di mantenere la forma d'onda di tensione entro i limiti ammessi.



Les moteurs standard, s'ils sont contrôlés par un variateur et reliés par des câbles de grande longueur (généralement plus de 100 mètres) peuvent exiger une inductance de sortie, afin de maintenir la forme d'onde de tension dans les limites acceptables.



Wenn Standardmotoren durch Frequenzumrichter gesteuert werden, und in grösseren Entfernungen zueinander angeschlossen sind (normalerweise über 100 Meter), kann eine Ausgangsdrossel erforderlich sein, damit die Spannungswellenform innerhalb der zulässigen Beschränkungen bleibt.



Quando los motores son controlados o conectados a excesiva distancia, (normalmente todo lo que exceda de 100 metros), requieren el uso de una inductancia de salida para ayudar a mantener la forma de onda de tensión en unos límites aceptables.

EMC Filter

Filtri EMI
Filtres CEM
EMV-Filter
Filtros EMI



See the Appendix for the filter weights and dimensions.
Per le dimensioni e i pesi dei filtri vedere Appendice.
Pour les dimensions et les poids des filtres voir Appendice.
Für Filterabmessungen und -gewichte siehe Anhang.
Para las dimensiones y pesos de los filtros, véase apéndice.

AGy-EV... -4/4A - EMC Filters for 230...400V mains supply			
Drive type	Model Number	Code	Class
	AGy-EV1007	EMI FFP 480-9	S7DEQ (**)
	AGy-EV1015	EMI FFP 480-9	S7DEQ (**)
	AGy-EV1022	EMI FFP 480-9	S7DEQ (**)
	AGy-EV1030	EMI FFP 480-9	S7DER (**)
	AGy-EV2040	EMI FFP 480-24	S7DER (**)
	AGy-EV2055	EMI FFP 480-24	S7DER (**)
	AGy-EV2075	EMI FFP 480-24	S7DER (**)
	AGy-EV3110	EMI FFP 480-30	S7DES (**)
	AGy-EV3150	EMI FFP 480-40	S7DET (**)
	AGy-EV4185	EMI 480-45	S7DFU (**)
	AGy-EV4220	EMI 480-45	S7DFU (**)
	AGy-EV4300	EMI 480-70	S7DFZ (**)
	AGy-EV4370	EMI 480-70	S7DFZ (**)
	AGy-EV5450	EMI 480-100	S7DGA (**)
	AGy-EV5550	EMI 480-100	S7DGA (**)
	AGy-EV6750	EMI 480-150	S7DGB (**)
	AGy-EV7900	EMI 480-180	S7DGC (**)
	AGy-EV71100	EMI 480-250	S7DGG (**)
	AGy-EV71320	EMI 480-250	S7DGG (**)
	AGy-EV81600	EMI 480-320	S7DGH (**)
	AGy-EV82000	EMI 480-400	S7DGI (**)

AGy-EV... -4/4A - EMC Filters for 480V mains supply			
Drive type	Model Number	Code	Class
	AGy-EV1007	EMI FFP 480-9	S7DEQ (**)
	AGy-EV1015	EMI FFP 480-9	S7DEQ (**)
	AGy-EV1022	EMI FFP 480-9	S7DEQ (**)
	AGy-EV1030	EMI FFP 480-9	S7DEQ (**)
	AGy-EV2040	EMI FFP 480-24	S7DER (**)
	AGy-EV2055	EMI FFP 480-24	S7DER (**)
	AGy-EV2075	EMI FFP 480-24	S7DER (**)
	AGy-EV3110	EMI FFP 480-30	S7DES (**)
	AGy-EV3150	EMI FFP 480-40	S7DET (**)
	AGy-EV4185	EMI 480-45	S7DFU (**)
	AGy-EV4220	EMI 480-45	S7DFU (**)
	AGy-EV4300	EMI 480-55	S7DFV (**)
	AGy-EV4370	EMI 480-70	S7DFZ (**)
	AGy-EV5450	EMI 480-100	S7DGA (**)
	AGy-EV5550	EMI 480-100	S7DGA (**)
	AGy-EV6750	EMI 480-150	S7DGB (**)
	AGy-EV7900	EMI 480-150	S7DGB (**)
	AGy-EV71100	EMI 480-180	S7DGC (**)
	AGy-EV71320	EMI 480-250	S7DGG (**)
	AGy-EV81600	EMI 480-250	S7DGG (**)
	AGy-EV82000	EMI 480-320	S7DGH (**)

(**): EN61800-3/A11, 1st environment restricted distribution.

AGy-EV... -4/4A - EMC Filters for 230 ... 480V mains supply			
Drive type	Model Number	Code	Class
AGy-EV1007	EMI-C 480-25 (*)	S7DFA	A
AGy-EV1015	EMI-C 480-25 (*)	S7DFA	A
AGy-EV1022	EMI-C 480-25 (*)	S7DFA	A
AGy-EV1030	EMI-C 480-25 (*)	S7DFA	A
AGy-EV2040	EMI-C 480-25 (*)	S7DFA	A
AGy-EV2055	EMI-C 480-25 (*)	S7DFA	A
AGy-EV2075	EMI-C 480-25 (*)	S7DFA	A
AGy-EV3110	EMI-C 480-25 (*)	S7DFA	A

(*): Cable length between drive and motor max 5 meters.
 Lunghezza cavi drive/motore max 5 metri.
 Longueur des câbles variateur / moteur 5 mètres maxi.
 Maximale kabellänge zwischen Frequenzumrichter und Motor 5 m.
 Longitud del cable chive -motor máx. 5 mts.

AGy-EV ... -5 - EMC Filters for 575V mains supply			
Drive type	Model Number	Code	Class
AGy-EV2002	EMI 600-8	S7DFI	(**)
AGy-EV2003	EMI 600-8	S7DFI	(**)
AGy-EV2005	EMI 600-8	S7DFI	(**)
AGy-EV3007	EMI 600-18	S7DFL	(**)
AGy-EV3010	EMI 600-18	S7DFL	(**)
AGy-EV3015	EMI 600-18	S7DFL	(**)
AGy-EV3020	EMI 600-34	S7DFM	(**)
AGy-EV4025	EMI 600-34	S7DFM	(**)
AGy-EV4030	EMI 600-34	S7DFM	(**)
AGy-EV4040	EMI 600-47	S7DFN	(**)
AGy-EV5050	EMI 600-62	S7DFO	(**)
AGy-EV5060	EMI 600-85	S7DFP	(**)
AGy-EV5075	EMI 600-85	S7DFP	(**)
AGy-EV6100	EMI 600-113	S7DFQ	(**)
AGy-EV7125	EMI 600-145	S7DFR	(**)
AGy-EV7150	EMI 600-205	S7DFS	(**)
AGy-EV8200	EMI 600-280	S7DFT	(**)

(**): EN61800-3/A11, 1st environment restricted distribution.



When used and installed in accordance with Gefran-Siei procedures, AGy-EV drives used in conjunction with the filters listed in the table satisfy the requirements of EN61800-3/A11 European Directive standards relating to conducted and radiated radio-frequency emissions.
 The "EMC compatibility guidelines" appended to the drive documentation contains more detailed information of filter selection and installation procedures and of connection recommendations.



Gli inverter AGy-EV utilizzati con i filtri indicati in tabella soddisfano gli standard secondo la Normativa Europea EN 61800-3/A11, in merito alle emissioni in radiofrequenza condotte ed irradiate, quando utilizzati ed installati secondo le modalità indicate da Gefran-Siei.
 Informazioni dettagliate sulle modalità di scelta e di installazione del filtro e le raccomandazioni per i collegamenti sono indicate nella "Guida alla compatibilità elettromagnetica" allegata alla documentazione del drive.



Les variateurs AGy-EV utilisés avec les filtres indiqués dans le tableau, répondent à la Norme Européenne EN 61800-3/A11, en matière d'émissions en radiofréquence conduites et rayonnées, lorsqu'ils sont utilisés et installés conformément aux instructions fournies par Gefran-Siei.
 Des informations détaillées concernant les modes de sélection et d'installation du filtre et les recommandations pour les raccordements sont indiquées dans le "Guide à la compatibilité électromagnétique" joint à la documentation du variateur.



Die mit den Filtern laut Tabelle verwendeten AGy-EV Frequenzumrichter entsprechen den Standards laut EN 61800-3/A11 bezüglich leitungsgebundener und gestrahlter Störaussendungen, wenn sie gemäß den von Gefran-Siei gelieferten Angaben verwendet und installiert werden.
 Genauere Informationen über die Wahl und Installation des Filters, sowie Empfehlungen für die Anschlüsse sind dem "EMV-Handbuch" zu entnehmen, das den Antriebsunterlagen beigelegt ist.



Los inversores AGy-EV utilizados con los filtros EMI.... cumplen los estándares según la Normativa Europea EN 61800-3/A11, respecto a las emisiones en radiofrecuencia conducidas y radiadas, siempre que sean utilizados según las instrucciones indicadas por Gefran-Siei.
 En la Guía de la compatibilidad electromagnética adjunta a la documentación de la unidad aparece información detallada sobre las modalidades de selección y de instalación del filtro, así como las recomendaciones para las conexiones.

Braking Resistors

Resistenze di Frenatura
Résistances de Freinage
Bremswiderstände
Resistencias de Frenado



Refer to the Appendix for weights and dimensions of listed resistances or of other models available.
Vedere "Appendice" per le dimensioni ed i pesi delle resistenze elencati od altri modelli disponibili.

Voir "Appendice" pour les dimensions et les poids des résistances énumérées ou d'autres modèles disponibles.

Für die Abmessungen und Gewichte der angeführten Widerstände oder andere erhältliche Modelle siehe "Anhang".

Ver el Apéndice para pesos y dimensiones de las referencias listadas o para otros modelos disponibles.

AGy-EV... -4/4A (230...480V)					
Drive type	P _{NBR} [kW]	R _{BR} [Ω]	E _{BR} [kJ]	Resistor type	Code
AGy-EV2055	0.9	68	33	MRI/T900 68R	S8SS2
AGy-EV2075	0.9	68	33	MRI/T900 68R	S8SS2
AGy-EV3110	1.3	49	48	MRI/T1300 49R	S8ST4
AGy-EV3150	2.1	28	90	BR T2K0-28R	S8T00F
AGy-EV4185	4	15.4	180	BR T4K0-15R4	S8T00G
AGy-EV4220	4	15.4	180	BR T4K0-15R4	S8T00G
AGy-EV4300	4	11.6	180	BR T4K0-11R6	S8T00H
AGy-EV4370	4	11.6	180	BR T4K0-11R6	S8T00H
AGy-EV5450	8	7.7	360	BR T8K0-7R7	S8T00I
AGy-EV5550	8	7.7	360	BR T8K0-7R7	S8T00I

AGy-EV ... -5 (575V)					
Drive type	P _{NBR} [kW]	R _{BR} [Ω]	E _{BR} [kJ]	Resistor type	Code
AGy-EV2002	0.6	140	22	MRI/T600 140R	S8SY7
AGy-EV2003	0.6	140	22	MRI/T600 140R	S8SY7
AGy-EV2005	0.6	140	22	MRI/T600 140R	S8SY7
AGy-EV3007	0.9	100	33	MRI/T900 100R	S8SY8
AGy-EV3010	0.9	100	33	MRI/T900 100R	S8SY8
AGy-EV3015	1.3	74	48	MRI/T1300 74R	S8SY9
AGy-EV3020	2.1	42	90	BR T2K0-42R	S8T00M
AGy-EV4025	4	23	180	BR T4K0-23R	S8T00N
AGy-EV4030	4	23	180	BR T4K0-23R	S8T00N
AGy-EV4040	4	18	180	BR T4K0-18R	S8T00O
AGy-EV5050	4	18	180	BR T4K0-18R	S8T00O
AGy-EV5060	8	11.6	180	BR T8K0-11R6	S8T00R
AGy-EV5075	8	11.6	180	BR T8K0-11R6	S8T00R



Suggested braking resistors for use with an internal braking unit.

The suggested match of resistors and drive allows a braking in overload condition with duty cycle:

$$T_{BR}/T = 10\%$$

(T_{BR} = Braking time, T = Cycle time)



Resistenze di frenatura consigliate per l'impiego con unità di frenatura interna.

Le resistenze in abbinamento al drive, consentono una frenatura di arresto in condizioni di sovraccarico

con duty cycle: T_{BR}/T = 10%

(T_{BR} = Tempo di frenatura, T = Tempo di ciclo).



Résistances de freinage conseillées pour une utilisation avec une unité de freinage interne. Les résistances accouplées au variateur, permettent un freinage d'arrêt dans des conditions de surcharge avec un duty cycle: T_{BR}/T = 10%

(T_{BR} = Temps de freinage, T = Temps de cycle)



Für den Einsatz mit einer internen Bremsseinheit empfohlene Bremswiderstände.

Die Widerstände in Kombination mit dem Antrieb ermöglichen eine Haltebremsung unter Überlastbedingungen mit einem Arbeitszyklus: T_{BR}/T = 10 %

(T_{BR} = Bremszeit, T = Zykluszeit).



Resistencias de frenado recomendadas para el uso con unidad de frenado interna.

Las resistencias acopladas al inversor permiten un frenado de parada en condiciones de sobrecarga con duty cycle: T_{BR}/T = 10%

(T_{BR} = Tiempo de frenado, T = Tiempo de ciclo).

External Braking Unit

Unità di Frenatura Esterna
Unité de Freinage Extérieure
Externe Bremsseinheiten
Unidad de Frenado Externa



AGy-EV... -4/4A (230...480V)		
Code	Type	Description
S9D50	BU32 460-20	Braking unit 20 A rms, power supply 230 ... 460 V
S9D51	BU32 460-50	Braking unit 50 A rms, power supply 230 ... 460 V
S9D52	BU32 460-85	Braking unit 85 A rms, power supply 230 ... 460 V
S9D55	BUy1020	Braking unit 20 A rms, power supply 230 ... 460 V / UL recognized
S9D56	BUy1050	Braking unit 50 A rms, power supply 230 ... 460 V / UL recognized
S9D57	BUy1085	Braking unit 85 A rms, power supply 230 ... 460 V / UL recognized

AGy-EV ... -5 (575V)		
Code	Type	Description
S9D62	BUy 1075-5	Braking unit 75 A rms, power supply 575 V / UL recognized



This device has to be combined with one or more suitably dimensioned external resistor.



Questo accessorio deve essere abbinato con una o più resistenze esterne opportunamente dimensionate.



Cet accessoire doit être accouplé à une ou plusieurs résistances externes dimensionnées comme il se doit.



Dieses Zubehörteil muss mit einem oder mehreren externen Widerständen in entsprechender Größe kombiniert werden.



Este accesorio se debe acoplar con una o más resistencias exteriores de dimensiones oportunas.

Options

Opzioni
Options

Optionen
Opciones

Programming keypad



Code	Type	Description
S5K06	KB-EV-LCD / I	Programming keypad, languages: English and Italian
S5K07	KB-EV-LCD / F	Programming keypad, languages: English and French
S5K08	KB-EV-LCD / E	Programming keypad, languages: English and Spanish
S5K08	KB-EV-LCD / D	Programming keypad, languages: English and German
S5P7K	KBG-1	Programming keypad, (7 segment LED)

- KB-EV-LCD/.: programming keypad, complete with LCD display (2 lines x 16 characters).
- KB-EV-LCD/.: Tastiera di programmazione, con display LCD (2 linee x 16 caratteri).
- KB-EV-LCD/.: Clavier de programmation avec afficheur LCD (2 lignes x 16 caractères).
- KB-EV-LCD/.: Programmier-Bedieneinheit mit LCD (2 Zeilen x 16 Zeichen).
- KB-EV-LCD/.: Teclado programable con visualizador LCD (2 líneas X 16 caracteres)

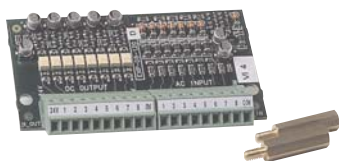
I/O Expansion EXP-D6A1R1-AGy



Code	Type	Description
S524L	EXP-D6A1R1-AGy	Input / Output expansion

- Inverter standard input / output expansion card:
 - 4 digital inputs (+15Vdc ... +24Vdc $\pm$ 10%, max 5mA)
 - 2 digital outputs (+15Vdc ... +50Vdc $\pm$ 10%, max 50mA)
 - 1 analogue output (0...+10V / 0...20mA)
 - 1 relay complete with exchange contact (230VAC - 0,2A / 30VDC - 1A)
- Scheda di espansione degli ingressi/uscite standard dell'inverter.
 - 4 Ingressi digitali (+15Vdc ... +24Vdc $\pm$ 10%, max 5mA)
 - 2 Uscite digitali (+15Vdc ... +50Vdc $\pm$ 10%, max 50mA)
 - 1 Uscita analogica (0...+10V / 0...20mA)
 - 1 relè con contatto di scambio (230VAC - 0,2A / 30Vdc - 1A)
- Carte d'extension des entrées/sorties standard du variateur :
 - 4 Entrées digitales (+15Vcc ... +24Vcc $\pm$ 10%, maxi 5mA)
 - 2 Sorties digitales (+15Vcc ... +50Vcc $\pm$ 10%, maxi 50mA)
 - 1 Sortie analogique (0...+10V / 0...20mA)
 - 1 relais avec contact inverseur (230VCA - 0,2A / 30Vcc - 1A)
- Erweiterungskarte für die Standard-Eingänge/Ausgänge des Frequenzumrichters:
 - 4 Digitaleingänge (+15Vdc ... +24Vdc $\pm$ 10%, max 5mA)
 - 2 Digitalausgänge (+15Vdc ... +50Vdc $\pm$ 10%, max 50mA)
 - 1 Analogausgang (0...+10V / 0...20mA)
 - 1 Relais mit Wechselkontakt (230VAC - 0,2A / 30VDC - 1A)
- Esquema de expansión del inverter estándar de entrada/salida de corriente:
 - 4 entradas digitales (+15Vcc ... +24Vcc $\pm$ 10%, máx 5mA)
 - 2 salidas digitales (+15Vcc ... +50Vcc $\pm$ 10%, máx 50mA)
 - 1 salida analógica (0...+10V / 0...20mA)
 - 1 relé de contacto conmutado (230VAC - 0,2A / 30Vcc - 1A)

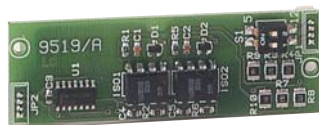
Digital Input Expansion EXP-D8-120



Code	Type	Description
S520L	EXP-D8-120	Interface card for digital inputs signals at 120VAC

- Interface card for digital inputs at 120VAC
 - 8 inputs (115VAC $\pm$ 10%, 50/60Hz, Iinput 4...5,5mA)
 - 8 outputs (24VDC $\pm$ 10%, Ioutput 10mA max)
- Scheda d'interfaccia per ingressi digitali a 120VAC
 - 8 Ingressi (115VAC $\pm$ 10%, 50/60Hz, Iingresso 4...5,5mA)
 - 8 Uscite (24Vdc $\pm$ 10%, Iuscita 10mA max)
- Carte d'interface pour entrées digitale sous 120VAC
 - 8 Entrées (115VAC $\pm$ 10%, 50/60Hz, Ientrée 4...5,5mA)
 - 8 Sorties (24Vdc $\pm$ 10%, Isortie 10mA max)
- Schnittstellenkarte für Digitaleingänge zu 120VAC
 - 8 Eingänge (115VAC $\pm$ 10%, 50/60Hz, IEingang 4...5,5mA)
 - 8 Ausgänge (24VDC $\pm$ 10%, IAusgang 10mA max)
- Tarjeta interfaz para entradas digitales a 120VAC
 - 8 entradas (115VAC $\pm$ 10%, 50/60Hz, Iinput 4...5,5mA)
 - 8 salidas (24Vcc $\pm$ 10%, Ioutput 10mA max)

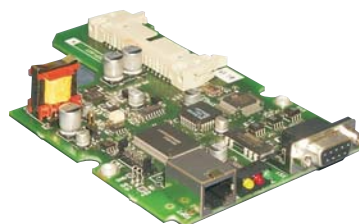
Feedback encoder card EXP-ENC-AGy



Code	Type	Description
S525L	EXP-ENC-AGy	Encoder management interface

- HTL (24V - 17mA) and TTL (5V - 9mA) encoder management interface.
- Interfaccia per gestione encoder HTL (24V - 17mA) e TTL (5V - 9mA).
- Interface pour gestion codeur HTL (24V - 17mA) et TTL (5V - 9mA)
- Schnittstelle für Endcoderanschluß HTL (24 V - 17 mA) und TTL (5 V - 9 mA)
- Codificador interface HTL (24V - 17mA) y TTL (5V - 9mA).

ProfiBus Interface Card SBI-PDP-AGy



Code	Type	Description
S5H28	SBI-PDP-AGy	Field bus interface

- Field bus interface:
 - Profidrive protocol
 - Complete configuration via drive parameters
 - Transmission speed from 9.6 kbit / s to 12 Mbit / s
 - Bus address 1...127
 - Profidrive profile from PPO type 1 to PPO type 5
 - "Gefran-Siei" PPO type 0 profile (up to 6 I/O fast word + manual channels)
 - Sync support
 - Freeze support
- Interfaccia bus di campo:
 - Protocollo Profidrive
 - Configurazione completa tramite parametri drive
 - Velocità di trasmissione da 9,6 kbit / s a 12 Mbit / s
 - Indirizzo bus 1...127
 - Profili Profidrive da PPO tipo 1 a PPO tipo 5
 - Profilo "Gefran-Siei" PPO tipo 0 (fino a 6 I/O word veloci + canali manuali)
 - Supporto Sync
 - Supporto Freeze
- Interface bus de terrain :
 - Protocole Profidrive
 - Configuration complète par les paramètres du variateur
 - Vitesse de transmission de 9,6 kbits/s à 12 Mbits/s
 - Adresse bus 1...127
 - Profil Profidrive de PPO type 1 à PPO type 5
 - Profil "Gefran-Siei" PPO type 0 (jusqu'à 6 E/S mots rapides + canaux manuels)
 - Support Sync
 - Support Freeze
- Feldbus-Schnittstelle:
 - Protokoll Profidrive
 - vollständige Konfiguration mittels Antriebsparameter
 - Übertragungsgeschwindigkeit von 9,6 kBit/s bis 12 Mbit/s
 - Adresse Bus 1...127
 - Profidrive-Profil von PPO Typ 1 bis PPO Typ 5
 - "Gefran-Siei"-Profil PPO Typ 0 (bis zu 6 I/O Word rasch + manuelle Kanäle)
 - Sync-Unterstützung
 - Freeze-Unterstützung
- Interfaces de Bus de campo:
 - Protocolo Profidrive
 - Configuración completa a través de los parámetros del equipo
 - Velocidad de transmisión de 9,6kbit/s a 12Mbit/s
 - Buss address 1...127
 - Perfil de profidrive desde el PPO tipo 1 hasta el 5 PPO tipo 5
 - Perfil "Gefran-Siei" PPO tipo 0 (más de 6 I/O caracteres rápidos + manual de canales)
 - Soporte Sync
 - Soporte de FREEZE

CANopen / DeviceNet Card SBI-COP/DN-AGy

Interfaccia bus di campo
Interface bus de terrain
Schnittstelle Feldbus
Interfaz de Bus de campo



Code	Type	Description
S5H29	SBI-COP/DN-AGy	Field bus interface



This card is standard fitted into the inverters that have the extension "-C" (i.e.: AGy-EV...-KBX-4-C), suitable for the following field buses:

- CANopen:**
- Transmission speed up to 1Mbit/s selectable from the drive parameter
 - Bus address 0...128 selectable from the drive parameter
 - Data frame:
 - 1 SDO for complete access to the drive parameters
 - 2 PDO of 4 I/O words for fast access
- DeviceNet:**
- Transmission speed: 125, 250, 500 kbit/s selectable from the drive parameter
 - Bus address 0...63 selectable from the drive parameter
 - Data frame:
 - Explicit Messaging for access to all the drive parameters
 - 1...6 Polling I/O words for fast access via the drive parameter.



La scheda è montata come standard all'interno degli inverter con estensione "-C" (Es.: AGy-EV...-KBX-4-C), e consente l'interfacciamento con i seguenti bus di campo:

- CANopen:**
- Velocità di trasmissione fino a 1Mbit/s selezionabile da parametro drive
 - Indirizzo bus 0...128 selezionabile da parametro drive
 - Data frame:
 - 1 SDO per accesso completo ai parametri drive
 - 2 PDO di 4 I/O word per accesso veloce
- DeviceNet:**
- Velocità di trasmissione: 125, 250, 500 kbit/s selezionabile da parametro drive
 - Indirizzo bus 0...63 selezionabile tramite parametro drive
 - Data frame:
 - Explicit Messaging per accesso a tutti i parametri drive
 - 1...6 Polling I/O word per accesso veloce tramite parametro drive.



Ces cartes peuvent être montées uniquement sur des variateurs ayant une extension "-C" (c'est-à-dire: AGy-EV...-KBX-4-C), qui sont prévus pour les bus de terrain suivants :

- CANopen:**
- Vitesse de transmission jusqu'à 1Mbit/s pouvant être sélectionnée par un paramètre variateur
 - Adresse bus 0...128 pouvant être sélectionnée par un paramètre variateur
 - Caractéristique de la trame:
 - 1 SDO pour accès complet aux paramètres variateur
 - 2 PDO de 4 E/S mot pour accès rapide
- DeviceNet:**
- Vitesse de transmission : 125, 250, 500 kbits/s pouvant être sélectionnée par un paramètre variateur
 - Adresse bus 0...63 pouvant être sélectionnée par un paramètre variateur
 - Caractéristique de la trame:
 - Message clair pour accès à tous les paramètres variateur
 - 1...6 Polling E/S mot pour accès rapide par un paramètre variateur.



Die Karte ist standardmäßig auf Frequenzumrichtern mit Zusatz "-C" (z.B: AGy-EV..._KBX-4-C) montiert und ermöglicht die Kommunikation mit folgenden Feldbussen:

- CANopen:**
- Übertragungsgeschwindigkeit bis zu 1 MBit/s, wählbar über Antriebsparameter
 - Bus-Adresse 0...128, wählbar über Antriebsparameter
 - Datensatz:
 - 1 SDO für kompletten Zugriff auf die Antriebsparameter
 - 2 PDO mit 4 I/O Word für raschen Zugriff
- DeviceNet:**
- Übertragungsgeschwindigkeit: 125, 250, 500 kBit/s wählbar über Antriebsparameter
 - Bus-Adresse 0...63, wählbar über Antriebsparameter
 - Datensatz:
 - Eindeutige Definition für den Zugriff auf alle Antriebsparameter
 - 1...6 Polling I/O Word für raschen Zugriff über Antriebsparameter.



La tarjeta se monta como equipo estándar en el interior del inverter con la extensión "-C" (AGy-EV...-KBX-C), y permite el interface con los siguientes buses de campo:

- CANopen:**
- Velocidad de transmisión de más de 1Mbit/s seleccionable desde el parámetro el equipo.
 - Dirección de Bus 0...128 seleccionable desde el parámetro del equipo.
 - Marco de datos:
 - 1 SDO para un completo acceso a los parámetros del equipo.
 - 2 PDO de caracteres de 4 I/O para un acceso más rápido
- DeviceNet:**
- Velocidad de transmisión: 125, 250, 500 kbits/s seleccionable desde los parámetros del equipo.
 - Dirección de Bus 0...63 seleccionable desde los parámetros del equipo.
 - Marco de datos:
 - Mensajes explícitos para acceder a todos los parámetros del equipo.
 - 1...6 caracteres Polling I/O para un más rápido acceso a través del parámetro del equipo.

Data storage device PRG-KEY



Code	Type	Description
S6F38	PRG-KEY	Key with memory (for data upload - download)

-  Dispositivo per memorizzazione dati (caricamento e scaricamento dati)
-  Dispositif pour mémorisation des données (pour chargement - déchargement des paramètres)
-  Datenspeicherungseinrichtung (Dateneingabe und -abruf)
-  Dispositivo para la memorización de datos (carga y descarga de datos)

Accessories

Accessori
Accessoires
Zubehörteile
Accesorios

Kit for NEMA 1 type protection degree



Code	Type	Description
S70Z0	KIT NEMA 1-S1	Kit for mechanical size 1
S70Z1	KIT NEMA 1-S2	Kit for mechanical size 2
S70Z2	KIT NEMA 1-S3	Kit for mechanical size 3

- Kit per grado di protezione NEMA 1.
- Kit pour degré de protection NEMA 1.
- Montagesatz für Schutzgrad NEMA 1.
- Kit de instalación de nivel de protección NEMA 1.

Kit for the mounting of the remote KBG keypad



Code	Type	Description
S5WW5	Remote keypad KIT	KBG... keypad connection cable and support panel

- Pannello di supporto e cavo di collegamento per tastiere KBG...
- Support et câble de liaison pour les consoles KBG...
- Kit per remotazione delle tastiere di programmazione KBG...
- Cable de conexión al teclado KBG y panel de soporte.

Kit for IP54 protection degree

Code	Type	Description
S585R	KIT H-IP54	Kit for IP54 protection degree (AGy1007...AGy3150 sizes)

- Kit per grado di protezione IP54 (taglie AGy1007...AGy3150).
- Kit pour degré de protection IP54 (grandeurs AGy1007...AGy3150).
- Montagesatz für Schutzgrad IP54 (Größen AGy1007...AGy3150).
- Kit de instalación de nivel de protección IP54 (dimensiones AGy1007...AGy3150).

Serial line connection. Devices for connection via an RS485 serial line

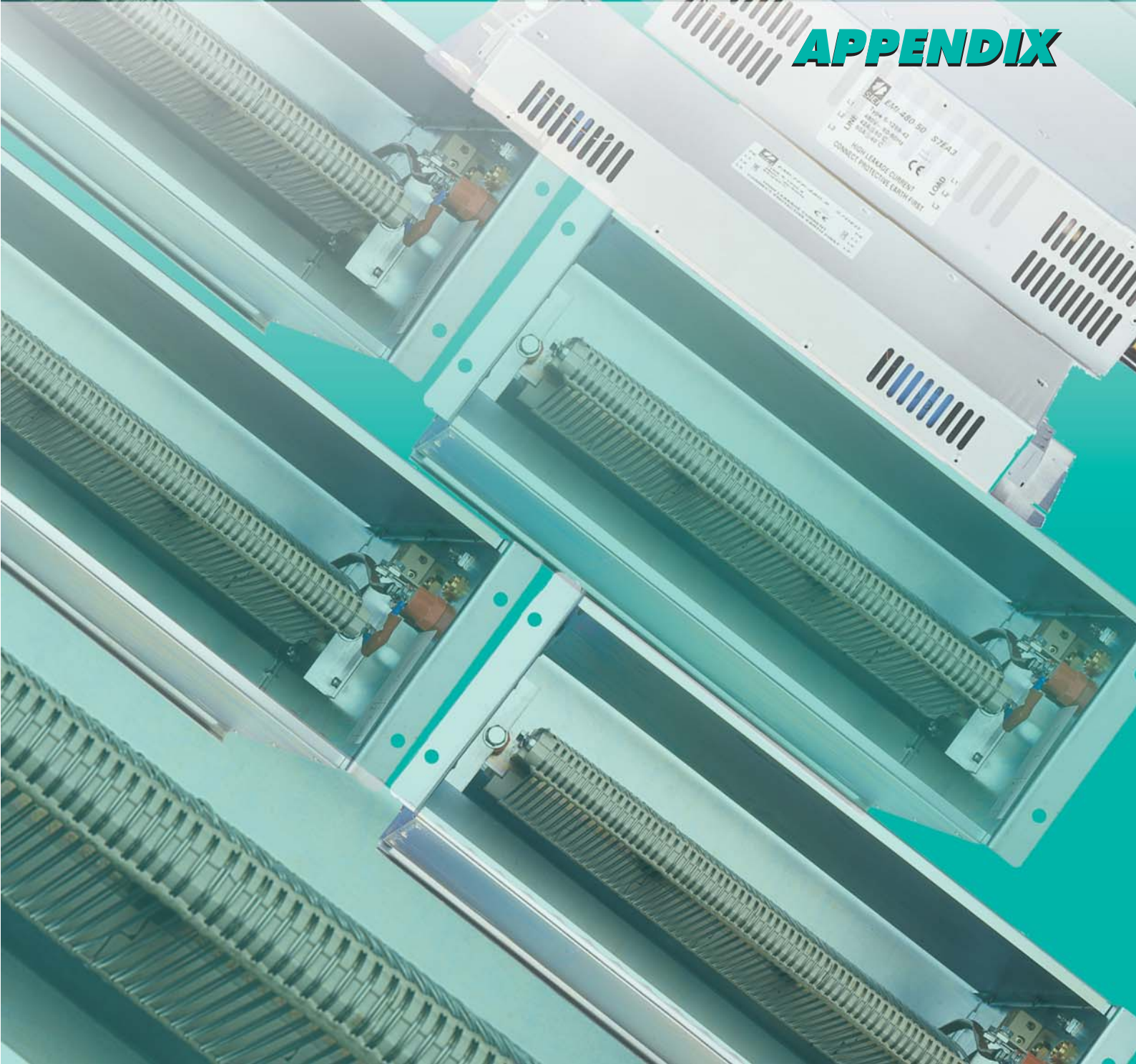


Code	Type	Description
S560T	PCI-COM	RS232 / RS485 serial interface
8S8F59	Shielded cable	Serial RS485 connection cable (5 meters length)
S50T6	Kit RS485+PCI-COM	PCI-COM + connection cable
S5Z40	A-RS485	External supply for RS485 serial interface

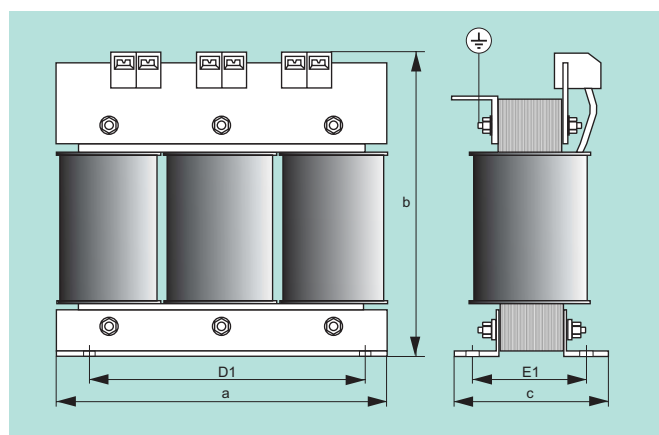
- Collegamento via linea seriale. Dispositivi per collegamento tramite linea seriale RS485.
- Connexion par liaison série. Dispositifs pour connexion par liaison série RS485.
- Anschluss mittels serieller Schnittstelle. Stecker für den Anschluss der seriellen Schnittstelle RS485.
- Conexión de la línea de serie opto-acoplada. Equipo para conectar a través de una línea de serie opto-acoplada RS485.



APPENDIX



Induttori
Inducteurs
Netzdrosseln
Inductancias



Choke Type	Code	Dimensions mm [inches]					Weight kg [lbs]
		a	b	c	D1	E1	
LR3y-1007	S7AAD	120 [4.7]	125 [4.9]	65 [2.6]	100 [3.9]	45 [1.8]	1.8 [4.0]
LR3y-1015	S7AAE	120 [4.7]	125 [4.9]	65 [2.6]	100 [3.9]	45 [1.8]	1.8 [4.0]
LR3y-1022	S7AAF	120 [4.7]	125 [4.9]	65 [2.6]	100 [3.9]	45 [1.8]	1.9 [4.0]
LR3y-1030	S7AB3	120 [4.7]	125 [4.9]	65 [2.6]	100 [3.9]	45 [1.8]	1.9 [4.0]
LR3y-2040	S7AAG	120 [4.7]	125 [4.9]	65 [2.6]	100 [3.9]	45 [1.8]	2 [4.4]
LR3y-2055	S7AB5	120 [4.7]	125 [4.9]	75 [2.6]	100 [3.9]	55 [2.2]	2.2 [4.4]
LR3y-2075	S7AB6	150 [5.9]	155 [6.1]	79 [3.1]	90 [3.5]	54 [2.1]	4.9 [10.8]
LR3y-3110	S7AB7	150 [5.9]	155 [6.1]	79 [3.1]	90 [3.5]	54 [2.1]	5 [11]
LR3y-3150	S7AB8	150 [5.9]	169 [6.7]	85 [3.3]	90 [3.5]	56 [2.2]	5.5 [12.1]
LR3-011	S7FF6	180 [7.1]	182 [7.2]	130 [5.1]	150 [5.9]	80 [3.1]	8 [17.6]
LR3-022	S7FF4	180 [7.1]	182 [7.2]	130 [5.1]	150 [5.9]	74 [2.9]	7.8 [17.2]
LR3-030	S7FF3	180 [7.1]	165 [6.5]	160 [6.3]	150 [5.9]	74 [2.9]	9.5 [20.9]
LR3-037	S7FF2	180 [7.1]	160 [6.3]	180 [7.1]	150 [5.9]	80 [3.1]	9.5 [20.9]
LR3-055	S7FF1	180 [7.1]	168 [6.6]	180 [7.1]	150 [5.9]	94 [3.7]	12.5 [27.6]
LR3-090	S7D19	300 [11.8]	265 [10.4]	210 [8.3]	250 [9.8]	85 [3.3]	55 [121.3]
LR3-160	S7D40	300 [11.8]	270 [10.6]	260 [10.2]	250 [9.8]	120 [4.7]	44 [97.0]
LR3-200	S7AE9	300 [11.8]	270 [10.6]	355 [13.9]	250 [9.8]	130 [5.1]	54 [119]
LR3-315	S7D28	375 [14.8]	545 [21.5]	255 [10.0]	250 [9.8]	133 [5.2]	110 [242.5]
LR3-630	S7AB2	420 [10]	540 [21.2]	340 [13.4]			115 [253.5]
LRy3-5-002	S7AD0	120 [4.7]	125 [4.9]	75 [2.6]	100 [3.9]	42 [1.6]	2 [4.4]
LRy3-5-003	S7AD2	120 [4.7]	125 [4.9]	75 [2.6]	100 [3.9]	42 [1.6]	2 [4.4]
LRy3-5-005	S7AD3	120 [4.7]	125 [4.9]	85 [3.3]	100 [3.9]	52 [2.0]	2.7 [5.9]
LRy3-5-007	S7AC7	150 [5.9]	152 [6]	80 [3.1]	90 [3.5]	55 [2.2]	5 [11]
LRy3-5-010	S7AC8	150 [5.9]	152 [6]	80 [3.1]	90 [3.5]	55 [2.2]	5 [11]
LRy3-5-015	S7AC9	150 [5.9]	164 [6.4]	96 [3.8]	90 [3.5]	60 [2.4]	5.5 [12.1]
LRy3-5-020	S7AD1	150 [5.9]	164 [6.4]	106 [4.2]	90 [3.5]	70 [2.8]	6.2 [13.7]
LR3-41-61-0,68	S7D03	190 [7.5]	170 [6.7]	150 [5.9]	150 [5.9]	82 [3.2]	10 [22.0]
LR3-61-91-0,45	S7D04	190 [7.5]	170 [6.7]	165 [6.5]	150 [5.9]	97 [3.8]	13 [28.7]
LR3-90-135-0,30	S7D05	240 [9.4]	210 [8.3]	180 [7.1]	176 [6.9]	94 [3.7]	20 [44.1]
LR3-107-160-0,26	S7D06	240 [9.4]	210 [8.3]	180 [7.1]	176 [6.9]	94 [3.7]	21 [46.3]
LR3-163-244-0,17	S7D07	240 [9.4]	235 [9.3]	210 [8.3]	176 [6.9]	109 [4.3]	29 [63.9]
LR3-253-380-0,11	S7D09	336 [13.2]	345 [13.6]	260 [10.2]	224 [8.8]	117 [4.6]	48 [105.8]
LR3-287-430-0,1	S7D10	336 [13.2]	355 [14.0]	270 [10.6]	224 [8.8]	127 [5.0]	59 [130.1]
LR3-368-552-0,076	S7D11	336 [13.2]	385 [15.2]	270 [10.6]	224 [8.8]	127 [5.0]	65 [143.6]
LR3-458-687-0,06	S7D12	375 [14.8]	420 [16.5]	305 [12.0]	250 [9.8]	134 [5.3]	80 [176.4]
LR3-605-910-0,05	S7D27	375 [14.8]	525 [20.7]	305 [12.0]	250 [9.8]	133 [5.2]	110 [242.5]
LR3-685-1027-0,04	S7D14	450 [17.7]	453 [17.8]	305 [12.0]	300 [11.8]	149 [5.9]	105 [231.5]
LR3-869-1303-0,03	S7D15	480 [18.9]	535 [21.1]	305 [12.0]	320 [12.6]	149 [5.9]	125 [275.6]



(*) Execution with three single-phase elements.
The data refers to each single-phase element.



(*) Esecuzione in tre elementi monofasi.
I dati si riferiscono ad ogni elemento monofase.



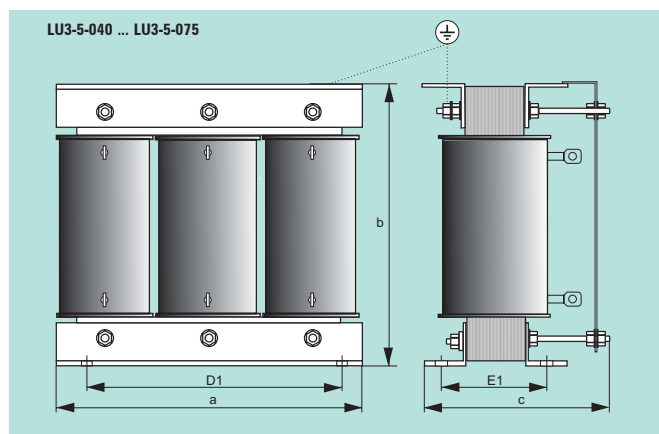
(*) Exécution en trois éléments monophasés.
Les données se réfèrent à chaque élément monophasé.



(*) Ausführung in drei einphasigen Elementen.
Die Daten beziehen sich auf jedes einzelne einphasige Element.

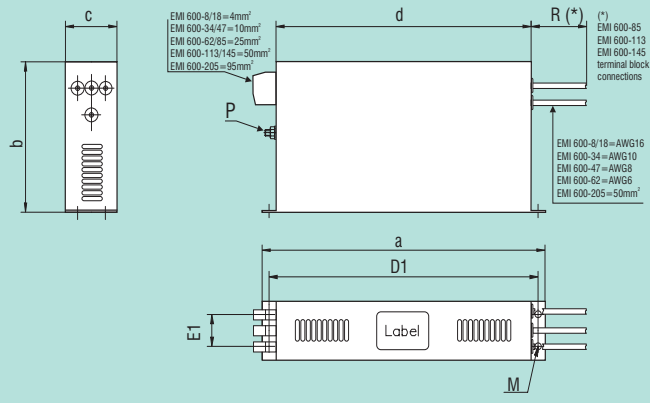


(*) Ejecución a través de 3 componentes monofásicos.
Los datos se refieren a cada unidad.

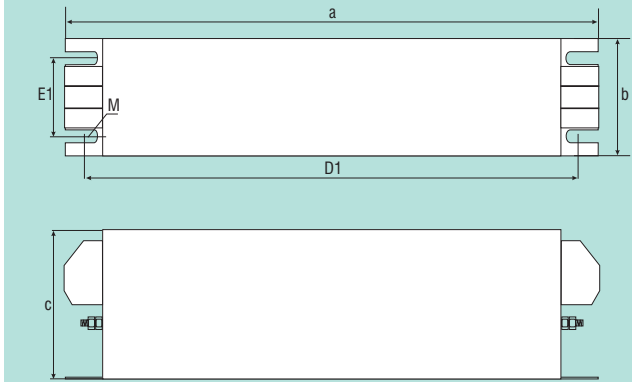


Choke Type	Code	Dimensions mm [inches]					Weight kg [lbs]
		a	b	c	D1	E1	
LR3-1143-1714 0,024 (*)	S7D16	320 [12.6]	425 [16.7]	270 [10.6]	160 [6.3]	149 [5.9]	60 [132.3]
LR3-1425-21380,019 (*)	S7D17	320 [12.6]	490 [19.3]	270 [10.6]	160 [6.3]	149 [5.9]	70 [154.3]
LR3-1712-25680,016 (*)	S7D18	320 [12.6]	530 [20.9]	270 [10.6]	160 [6.3]	149 [5.9]	75 [165.3]
LR3 160-240-0,186	S7HA0	240 [9.4]	220 [8.7]	260 [10.2]	177 [7.0]	140 [5.5]	38 [83.8]
LR3 240-360-0,123	S7HA1	300 [11.8]	270 [10.6]	250 [9.8]	250 [9.8]	124 [4.9]	48 [105.8]
LR3 360-540-0,082	S7HA2	340 [13.4]	430 [16.9]	280 [11.0]	224 [8.8]	130 [5.1]	70 [154.31]
LR3 560-840-0,053	S7HA3	375 [14.8]	560 [22.0]	310 [12.2]	250 [9.8]	133 [4.1]	90 [198.4]
LR3 900-1350-0,033	S7HA4	480 [18.9]	550 [21.7]	350 [13.8]	320 [12.6]	149 [5.9]	130 [286.6]
LR3 160-240-0,233	S7HA5	300 [11.8]	270 [10.6]	220 [8.7]	250 [9.8]	104 [4.1]	38 [83.8]
LR3 240-360-0,147	S7HA6	300 [11.8]	270 [10.6]	250 [9.8]	250 [9.8]	124 [4.9]	48 [105.8]
LR3 360-540-0,098	S7HA7	340 [13.4]	450 [17.7]	280 [11.0]	224 [8.8]	124 [4.9]	75 [165.3]
LR3 560-840-0,063	S7HA8	375 [14.8]	560 [22.0]	310 [12.6]	250 [9.8]	133 [5.2]	90 [198.4]
LR3 900-1350-0,039	S7HA9	480 [18.9]	530 [20.9]	350 [13.8]	320 [12.6]	159 [6.3]	140 [308.6]
LU3-001	S7FG1	120 [4.7]	128 [5.0]	71 [2.9]	100 [3.9]	54 [2.1]	2.7 [6.0]
LU3-003	S7FG2	180 [7.1]	170 [6.7]	110 [4.3]	150 [5.9]	60 [2.4]	5.2 [11.5]
LU3-005	S7FG3	180 [7.1]	170 [6.7]	110 [4.3]	150 [5.9]	60 [2.4]	5.8 [12.8]
LU3-011	S7FG4	180 [7.1]	180 [7.1]	130 [5.1]	150 [5.9]	70 [2.8]	8 [17.6]
LU3-015	S7FH2	180 [7.1]	160 [6.3]	170 [6.7]	150 [5.9]	70 [2.8]	7.5 [16.5]
LU3-022	S7FH3	180 [7.1]	160 [6.3]	170 [6.3]	150 [5.9]	70 [2.8]	8 [17.6]
LU3-030	S7FH4	180 [7.1]	160 [6.3]	180 [7.1]	150 [5.9]	80 [3.1]	9.5 [20.9]
LU3-037	S7FH5	180 [7.1]	160 [6.3]	180 [7.1]	150 [5.9]	80 [3.1]	9.7 [21.4]
LU3-055	S7FH6	240 [9.4]	210 [8.3]	180 [7.1]	200 [7.9]	80 [3.1]	14 [30.9]
LU3-090	S7F10	240 [9.4]	210 [8.3]	200 [7.9]	200 [7.9]	80 [3.1]	18.5 [40.8]
LU3-160	S7FH8	300 [11.8]	260 [10.2]	240 [9.4]	250 [9.8]	90 [3.5]	27.5 [60.6]
LU3-315	S7FH9	380 [15.0]	500 [19.7]	310 [12.2]	250 [9.8]	134 [5.3]	95 [209.4]
LU3-200	S7AF0	Data not yet available, for further information refer to Gefran-Siei commercial offices					
LU3-630	S7FI1	Data not yet available, for further information refer to Gefran-Siei commercial offices					
LU3-5-003	S7F12	120 [4.7]	125 [4.9]	75 [2.6]	100 [3.9]	42 [1.6]	2 [4.4]
LU3-5-005	S7F13	120 [4.7]	125 [4.9]	75 [2.6]	100 [3.9]	42 [1.6]	2 [4.4]
LU3-5-010	S7F14	150 [5.9]	152 [6]	80 [3.1]	90 [3.5]	55 [2.2]	5 [11]
LU3-5-020	S7F15	150 [5.9]	164 [6.4]	106 [4.2]	90 [3.5]	70 [2.8]	6.2 [13.7]
LU3-5-025	S7F16	150 [5.9]	164 [6.4]	106 [4.2]	90 [3.5]	70 [2.8]	6.2 [13.7]
LU3-5-030	S7F17	180 [7.1]	182 [7.2]	122 [4.8]	150 [5.9]	64 [2.5]	6.8 [15]
LU3-5-040	S7F18	180 [7.1]	165 [6.5]	170 [6.3]	150 [5.9]	84 [3.3]	10 [22]
LU3-5-050	S7F19	180 [7.1]	165 [6.5]	180 [7.1]	150 [5.9]	94 [3.7]	12 [26.5]
LU3-5-060	S7FL0	180 [7.1]	165 [6.5]	180 [7.1]	150 [5.9]	94 [3.7]	12 [26.5]
LU3-5-075	S7FL1	180 [7.1]	165 [6.5]	180 [7.1]	150 [5.9]	94 [3.7]	12 [26.5]
LU3-5-100	S7FL4	Data not yet available, for further information refer to Gefran-Siei commercial offices					
LU3-5-150	S7FL5	Data not yet available, for further information refer to Gefran-Siei commercial offices					

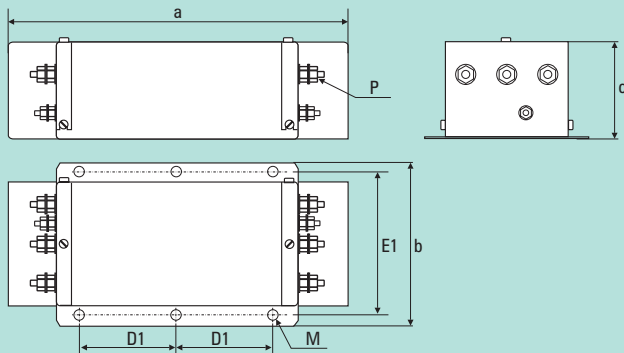
EMI 480-36, EMI 520-8/19, EMI 600-... series (Book shape)



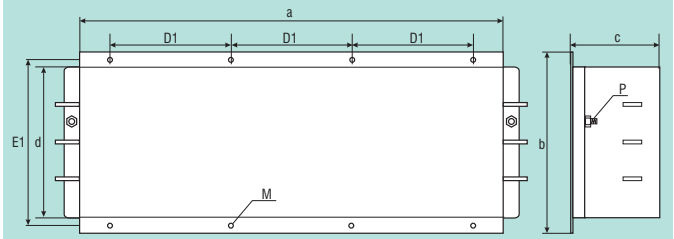
EMI 480-45 ... 180 series (Book shape)



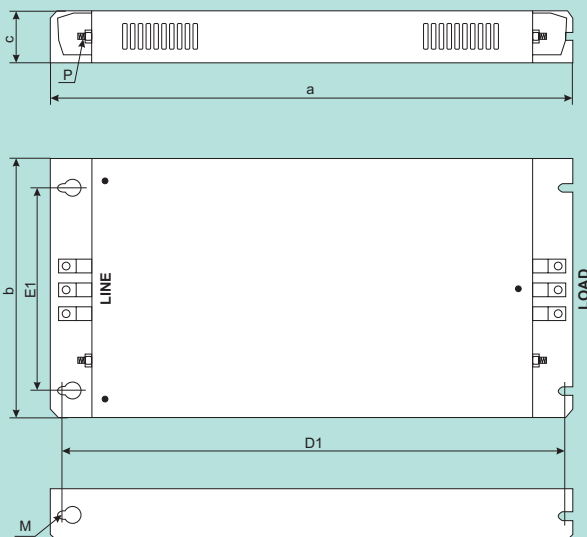
EMI 600-280 series



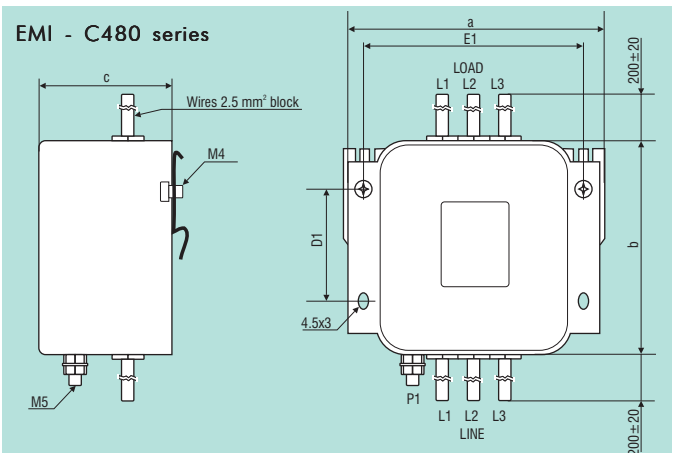
EMI 520-900..1200 series (Brick shape)



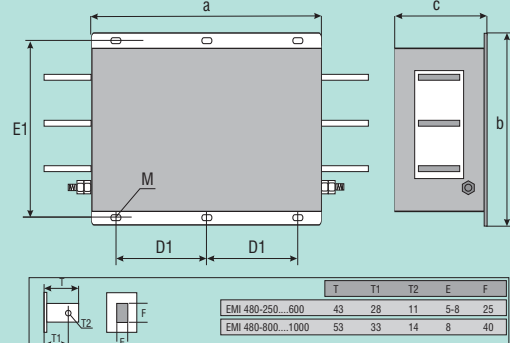
EMI FFP. series (Footprint)



EMI - C480 series



EMI 480-250 ... 1000 series



Detailed information about the filter choice, installation and connection can be found in the "EMC Guideline".



Informazioni dettagliate sulle modalità di scelta e di installazione del filtro e le raccomandazioni per i collegamenti, sono indicate nella "Guida alla compatibilità elettromagnetica".



Les informations détaillées concernant le choix et l'installation des filtres, ainsi que les recommandations pour le raccordement, sont fournies dans le "Guide à la compatibilité électromagnétique".



Genauere Informationen über Auswahl und Einbau des Filters sowie Empfehlungen für die Anschlüsse sind dem "EMV-Handbuch" zu entnehmen.



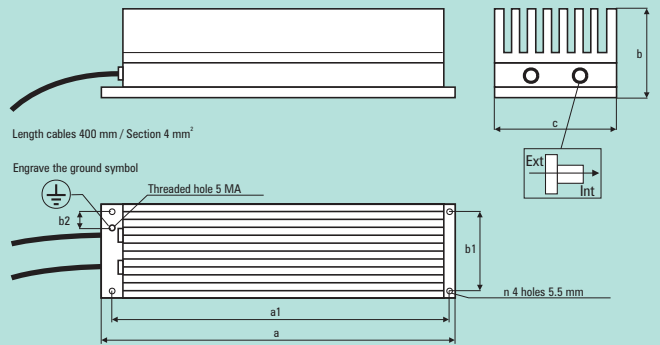
En la Guía de la compatibilidad electromagnética adjunta a la documentación de la unidad aparece información detallada sobre las modalidades de selección y de instalación del filtro, así como las recomendaciones para las conexiones.

Filter type	Code	Dimensions mm [inches]									Weight kg [lbs]
		a	b	c	d	D1	E1	R	P	M	
EMI 480-36	S7EA2	335 [13.2]	150 [5.9]	60 [2.4]	305 [12.0]	320 [12.6]	35 [1.4]	400 [15.7]	M5	Ø6.5	1.8 [4.0]
EMI 480-45	S7DFU	250 [9.8]	85 [3.3]	90 [3.5]	-	235 [9.3]	60 [2.4]	-	-	M6	1.3 [2.9]
EMI 480-55	S7DFV	250 [9.8]	85 [3.3]	90 [3.5]	-	235 [9.3]	60 [2.4]	-	-	M6	2 [4.4]
EMI 480-70	S7DFZ	270 [10.6]	90 [3.5]	150 [5.9]	-	255 [10.0]	65 [2.6]	-	-	M6	2.6 [5.7]
EMI 480-100	S7DGA	270 [10.6]	90 [3.5]	150 [5.9]	-	255 [10.0]	65 [2.6]	-	-	M6	2.6 [5.7]
EMI 480-150	S7DGB	400 [15.7]	120 [4.7]	170 [6.7]	-	365 [14.4]	102 [4.0]	-	-	M6	4.4 [9.7]
EMI 480-180	S7DGC	400 [15.7]	120 [4.7]	170 [6.7]	-	365 [14.4]	102 [4.0]	-	-	M6	4.4 [9.7]
EMI 480-250	S7DGG	300 [11.8]	260 [10.2]	135 [5.31]	-	120 [4.72]	235 [9.25]	-	-	M10	13 [28.7]
EMI 480-320	S7DGH	300 [11.8]	260 [10.2]	135 [5.31]	-	120 [4.72]	235 [9.25]	-	-	M10	13.2 [29.1]
EMI 480-400	S7DGI	300 [11.8]	260 [10.2]	135 [5.31]	-	120 [4.72]	235 [9.25]	-	-	M10	13.4 [29.5]
EMI 480-600	S7DGL	300 [11.8]	260 [10.2]	135 [5.31]	-	120 [4.72]	235 [9.25]	-	-	M10	13.6 [30]
EMI 480-800	S7DGM	350 [13.78]	280 [11.02]	150 [5.91]	-	145 [5.71]	255 [10.04]	-	-	M10	23 [50.7]
EMI 480-1000	S7DGN	350 [13.78]	280 [11.02]	150 [5.91]	-	145 [5.71]	255 [10.04]	-	-	M10	24 [52.9]
EMI 520-8	S7DEA	255 [10.0]	126 [5.0]	50 [2.0]	225 [8.9]	240 [9.4]	25 [1.0]	300 [11.8]	M5	Ø6.5	1 [2.2]
EMI 520-19	S7DEB	305 [12.0]	142 [5.6]	55 [2.2]	275 [8.9]	290 [11.4]	30 [1.2]	300 [11.8]	M5	Ø6.5	1.3 [2.9]
EMI 520-900	S7DEO	556 [21.9]	430 [16.9]	265 [10.4]	360 [14.2]	150 [5.9]	400 [15.7]	-	M20	Ø13	135 [297.6]
EMI 520-1200	S7DEP	556 [21.9]	430 [16.9]	265 [10.4]	360 [14.2]	150 [5.9]	400 [15.7]	-	M20	Ø13	140 [308.6]
EMI 600-8	S7DFI	255 [10.0]	126 [5.0]	50 [2.0]	225 [8.9]	240 [9.4]	25 [1.0]	300 [11.8]	M5	Ø6.5	1.1 [2.4]
EMI 600-18	S7DFL	305 [12.0]	142 [5.6]	55 [2.2]	275 [10.8]	290 [11.4]	30 [1.2]	300 [11.8]	M5	Ø6.5	1.7 [3.7]
EMI 600-34	S7DFM	335 [13.2]	150 [5.9]	60 [2.4]	305 [12.0]	320 [12.6]	35 [1.4]	400 [15.7]	M5	Ø6.5	1.8 [4.0]
EMI 600-47	S7DFN	329 [13.0]	185 [7.3]	70 [2.8]	300 [11.8]	314 [12.4]	45 [1.8]	500 [19.7]	M6	Ø6.5	2.8 [6.2]
EMI 600-62	S7DFO	329 [13.0]	185 [7.3]	80 [3.1]	300 [11.8]	314 [12.4]	55 [2.2]	500 [19.7]	M6	Ø6.5	3.1 [6.8]
EMI 600-85	S7DFP	329 [13.0]	220 [8.7]	80 [3.1]	300 [11.8]	314 [12.4]	55 [2.2]	(*)	M6	Ø6.5	4 [8.8]
EMI 600-113	S7DFQ	379 [14.9]	220 [8.7]	90 [3.5]	350 [13.8]	364 [14.3]	65 [2.6]	(*)	M10	Ø6.5	5.5 [12.1]
EMI 600-145	S7DFR	429 [16.9]	240 [9.4]	110 [4.3]	400 [15.7]	414 [16.3]	80 [3.2]	(*)	M10	Ø6.5	7.5 [16.5]
EMI 600-205	S7DFS	438 [17.2]	240 [9.4]	110 [4.3]	400 [15.7]	414 [16.3]	50 [2.3]	500 [19.7]	M10	Ø6.5	11 [24.3]
EMI-C 480-25	S7DFA	105 [4.1]	100 [3.9]	57 [2.2]	-	51 [2.0]	95 [3.7]	-	M5	4.5x3	0.96 [2.1]
EMI-FFP-480-9	S7DEQ	375 [14.8]	104 [4.1]	45 [1.8]	-	360 [14.2]	59 [2.3]	-	M5	Ø6	1.1 [2.4]
EMI-FFP-480-24	S7DER	375 [14.8]	150 [5.9]	45 [1.8]	-	360 [14.2]	105 [4.1]	-	M5	Ø6	1.4 [3.1]
EMI-FFP-480-30	S7DES	390 [15.4]	200 [7.9]	45 [1.8]	-	375 [14.8]	155 [6.1]	-	M5	Ø6	1.6 [3.5]
EMI-FFP-480-40	S7DET	390 [15.4]	200 [7.9]	45 [1.8]	-	375 [14.8]	155 [6.1]	-	M5	Ø6	2.3 [5.1]
EMI 600-280	S7DFT	300 [11.8]	230 [9.1]	132 [5.2]	-	120 [4.7]	205 [8.1]	-	M10	Ø12	7 [15.4]

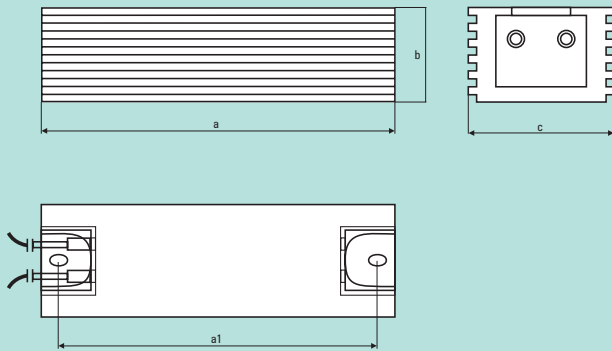
HPD... series



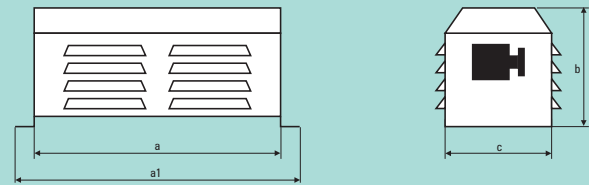
HPR... series



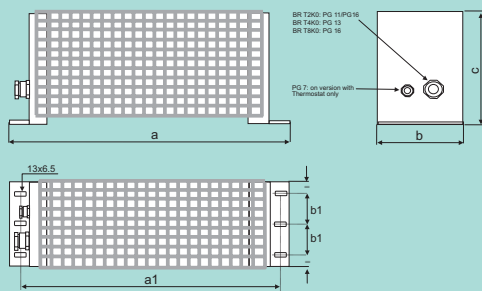
RFH... , RFQ... series



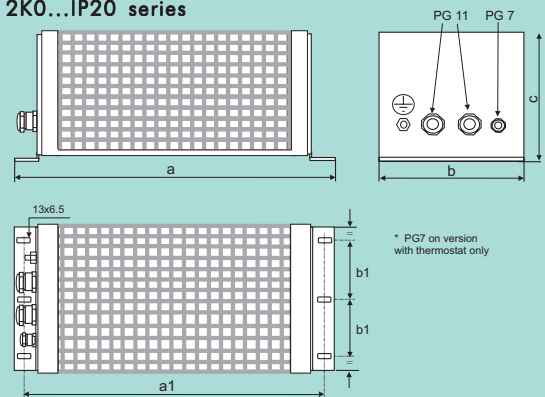
MRI/T600...,/T900...,/T1300... series



BR T2K0..., BR T4K0..., BR T8K0..., BR T12K0...IP20 series



BR T12K0...IP20 series



- 1) Enclosure. 2) 10 * Pn * 1" each 10" or 5 * Pn * 10" each 120". 3) Overload energy, 5" once. 4) Overload energy, 2" - duty 10%. 5) Overload energy, 30" - duty 25%. 6) Max overload energy, 30"-duty 25%. 7) Cyclic load (*): Ton ≤ 2". 8) Cyclic load (*): Ton = 15"-30".
(*) : Pn=Pmedia=Ppeak . Ton / T (with Ppeak max 18 Pn with pulse ≤ 2 and 2 Pn with pulse 15"-30").



- 1) Alloggiamento. 2) 10 * Pn * 1" ogni 10" o 5 * Pn * 10" ogni 120". 3) Sovraccarico, 5" una volta. 4) Sovraccarico, 2" - duty 10%. 5) Sovraccarico, 30" - duty 25%. 6) Max sovraccarico, 30"-duty 25%. 7) Carico ciclico(*): Ton ≤ 2". 8) Carico ciclico(*): Ton = 15"-30".
(*) : Pn=Pmedia=Ppeak . Ton / T (con Ppeak max 18 Pn con impulso ≤ 2 e 2 Pn con impulso 15"-30").



- 1) Boîtier. 10 * Pn * 1" toutes les 10" ou 5 * Pn * 10" toutes les 120". 3) Surcharge, 5" une fois. 4) Surcharge, 2" - service 10%. 5) Surcharge, 30" - service 25%. 6) Surcharge maxi, 30" - service 25%. 7) Charge cyclique (*): Ton ≤ 2". 8) Charge cyclique(*): Ton = 15"-30".
(*) : Pn=Pmoy=Pcrête . Ton / T (avec Pcrête max 18 Pn avec impulsion ≤ 2 et 2 Pn avec impulsion 15"-30").



- 1) Gehäuse. 2) 10 * Pn * 1" alle 10" oder 5 * Pn * 10" alle 120". 3) Überlast (Energie) 5 Sekunden einmalig. 4) Überlast (Energie) 2 Sekunden bei 10 % Belastung. 5) Überlast (Energie) 30 Sekunden bei 25 % Belastung. 6) Max. Überlast (Energie) 30 Sekunden bei 25 % Belastung. 7) Zyklische Last (Cyclic load) (*): Ton ≤ 2". 8) Cyclic load (*): Ton = 15"-30".
(*) : PDurchschnitt=PSpitze . Ton / T (mit PSpitze max 18 Pn mit Pulsen ≤ 2 und 2 Pn mit Pulsen 15"-30").



- 1) Almacenamiento. 2) 10 * Pn * 1" cada 10" o bien 5 * Pn * 10" cada 120". 3) Sobrecarga, 5" unitaria. 4) Sobrecarga, 2"-ciclo 10%. 5) Sobrecarga, 30"-ciclo 25%. 6) Sobrecarga máxima, 30"-ciclo 25%. 7) Carga cíclica (*): Ton ≤ 2". 8) Carga cíclica (*): Ton = 15"-30".
(*) : Pn=Pmedia=Ppeak . Ton / T (con Ppeak máx. 18 Pn con impulso < 2 y 2 Pn con impulso comprendido entre 15"-30").

Resistor type	Code	1)	PN _{BR} W	R _{BR} ohm	E _{BR} (kJ)				Dimensions mm [inch]						Weight kg [lbs]
					2)	3)	4)	5)	a	b	c	a1	b1	b2	
BR T2K0-28R	S8T00F	IP20	2000	28	20				625	100	250	605	40		6.2
									[24.6]	[3.9]	[9.8]	[23.8]	[1.6]		[13.7]
BR T2K0-42R	S8T00M	IP20	2000	42	40				625	100	250	605	40		6.2
									[24.6]	[3.9]	[9.8]	[23.8]	[1.6]		[13.7]
BR T4K0-11R6	S8T00H	IP20	4000	11.6	40				625	100	250	605	40		7.0
									[24.6]	[3.9]	[9.8]	[23.8]	[1.6]		[15.4]
BR T4K0-15R4	S8T00G	IP20	4000	15.4	40				625	100	250	605	40		7.0
									[24.6]	[3.9]	[9.8]	[23.8]	[1.6]		[15.4]
BR T4K0-18R	S8T00O	IP20	4000	18	40				625	100	250	605	40		7.0
									[24.6]	[3.9]	[9.8]	[23.8]	[1.6]		[15.4]
BR T4K0-23R	S8T00N	IP20	4000	23	40				625	100	250	605	40		7.0
									[24.6]	[3.9]	[9.8]	[23.8]	[1.6]		[15.4]
BR T8K0-11R6	S8T00R	IP20	8000	11.6	80				625	160	250	605	60		11.5
									[24.6]	[6.3]	[9.8]	[23.8]	[2.4]		[25.4]
BR T8K0-6R2	S8T00P	IP20	8000	6.2	80				625	160	250	605	60		11.5
									[24.6]	[6.3]	[9.8]	[23.8]	[2.4]		[25.4]
BR T8K0-7R7	S8T00I	IP20	8000	7.7	80				625	160	250	605	60		11.5
									[24.6]	[6.3]	[9.8]	[23.8]	[2.4]		[25.4]
BR T8K0-9R2	S8T00Q	IP20	8000	9.2	80				625	160	250	605	60		11.5
									[24.6]	[6.3]	[9.8]	[23.8]	[2.4]		[25.4]
BR T12K0-5R1	S8T00L	IP20	12000	5.1	120				625	200	250	605	80		16
									[24.6]	[7.9]	[9.8]	[23.8]	[3.1]		[35.3]
HPD 700 100R	S8SY4	IP44	700	100			17	38	200	62	100			30	1.83
									[7.9]	[2.4]	[3.9]			[1.2]	[4.03]
HPD 900 68R	S8SY5	IP44	900	68			25	48	260	62	100			30	1.41
									[10.2]	[2.4]	[3.9]			[1.2]	[3.11]
HPD 1100 40R	S8SY6	IP44	1100	40			33	58	320	62	100			30	2.25
									[12.6]	[2.4]	[3.9]			[1.2]	[4.96]
HPR 750 68R	S8SZ3	IP44	800	68		36	12	2.8	245	73	100	230	70	30	2.6
									[9.6]	[2.9]	[3.9]	[9.1]	[2.8]	[1.2]	[5.7]
HPR 750 80R	S8SZ0	IP44	800	80		36	12	2.8	245	73	100	230	70	30	2.6
									[9.6]	[2.9]	[3.9]	[9.1]	[2.8]	[1.2]	[5.7]
HPR 1200 10R	S8ST6	IP44	1200	10		54	18	4.3	310	73	100	295	70	30	3.2
									[12.2]	[2.9]	[3.9]	[11.6]	[2.8]	[1.2]	[7.1]
HPR 1200 49R	S8SZA	IP44	1200	49		54	18	4.3	310	73	100	295	70	30	3.2
									[12.2]	[2.9]	[3.9]	[11.6]	[2.8]	[1.2]	[7.1]

Resistor type	Code	1)	PN _{BR} W	R _{BR} ohm	E _{BR} (kJ)						Dimensions mm [inch]						Weight kg [lbs]
					3)	4)	5)	6)	7)	8)	a	b	c	a1	b1	b2	
HPR 2000 12R	S8ST7	IP44	1900	12	85	29	7.5				365	70	100	344	70	30	4.0
											[14.4]	[2.8]	[3.9]	[13.5]	[2.8]	[1.2]	[8.8]
HPR 2000 15R	S8ST8	IP44	1900	15	85	29	7.5				365	70	100	344	70	30	4.2
											[14.4]	[2.8]	[3.9]	[13.5]	[2.8]	[1.2]	[9.3]
HPR 2000 25R	S8SZ2	IP44	1900	25	85	29	7.5				365	70	100	344	70		4.7
											[14.4]	[2.8]	[3.9]	[13.5]	[2.8]		[10.4]
HPR 2000 28R	S8SZ5	IP44	1900	28	85	29	7.5				365	70	100	344	70		4.2
											[14.4]	[2.8]	[3.9]	[13.5]	[2.8]		[9.3]
HPR 2000 8R	S8ST5	IP44	1900	8	85	29	7.5				365	70	100	344	70		3.9
											[14.4]	[2.8]	[3.9]	[13.5]	[2.8]		[8.6]
MRI/T600 100R	S8SS3	IP20	600	100				22			320	120	100	360			1.5
											[12.6]	[4.7]	[3.9]	[14.2]			[3.3]
MRI/T600 140R	S8SY7	IP20	600	140				22			320	120	100	360			1.5
											[12.6]	[4.7]	[3.9]	[14.2]			[3.3]
MRI/T900 68R	S8SS2	IP20	900	68				33			320	160	120	380			2.7
											[12.6]	[6.3]	[4.7]	[15.0]			[6.0]
MRI/T900 80R	S8SV0	IP20	900	80				33			320	160	120	380			2.7
											[12.6]	[6.3]	[4.7]	[15.0]			[6.0]
MRI/T900 100R	S8SY8	IP20	900	100				33			320	160	120	380			2.7
											[12.6]	[6.3]	[4.7]	[15.0]			[6.0]
MRI/T1300 31R	S8ST3	IP20	1300	31				48			320	205	120	380			3.7
											[12.6]	[8.1]	[4.7]	[15.0]			[8.2]
MRI/T1300 40R	S8SS1	IP20	1300	40				48			320	305	120	380			3.6
											[12.6]	[12.0]	[4.7]	[15.0]			[7.9]
MRI/T1300 49R	S8ST4	IP20	1300	49				48			320	305	120	380			3.7
											[12.6]	[12.0]	[4.7]	[15.0]			[8.2]
MRI/T1300 74R	S8SY9	IP20	1300	74				48			320	305	120	380			3.7
											[12.6]	[12.0]	[4.7]	[15.0]			[8.2]
RFH 600 100R	S8SS5	IP44	600	100				20	20	20	320	270	360	309			0.6
											[12.6]	[10.6]	[14.2]	[12.2]			[1.3]
RFQ 50-400	S6F65	IP44	400	50				13.5	13.5	13.5	200	27	36	189			0.4
											[7.9]	[1.1]	[1.4]	[7.4]			[0.9]
RFQ 100-200	S6F60	IP44	400	100				13.5	13.5	13.5	200	27	36	189			0.5
											[7.9]	[1.1]	[1.4]	[7.4]			[1.1]

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