# How can efficiency, power quality and high process availability be combined?



With the proven air-cooled ROBICON Perfect Harmony drives.

Answers for industry.

**SIEMENS** 

# **ROBICON Perfect Harmony**

Air-Cooled Proven Performance



The ROBICON Perfect Harmony Air-Cooled medium voltage variable frequency drives (VFDs) from Siemens are designed to provide maximum versatility, efficiency and process availability.

The ROBICON Perfect Harmony air-cooled GenIIIe and GenIV deliver outstanding core characteristics and significant competitive advantages – such as high-power quality input and output, along with high availability.

Adding to the versatility of the ROBICON Perfect Harmony drive is available forced-air-cooling on the GenIIIe and GenIV. Redundant blowers are an option for all air-cooled units.

These fully integrated Variable Frequency Drive systems in a single lineup include the isolation transformer, power electronics, and control and cooling systems. There is no customer site cabling required to connect the assembled sections, and access to all components is easy. The control panel swings out for access to power and motor connections, and cells can be pulled out easily when maintenance is required.

# **Features and Benefits**

The ROBICON Perfect Harmony air-cooled VFD at a glance

- Reliable Air-Cooled design
- Clean power input (meets IEEE-519)
- 0.95 power factor throughout speed range
- Near perfect sinusoidal output allows retrofit to existing motors
- Multi-level PWM technology means no special motor is required
- Can be applied to induction, synchronous and wound rotor motors
- Control drive tool (Windows interface)
- Proven Perfect Harmony topology
- High-availability options for advanced cell bypass (ProToPS)
- Option for redundant blowers





# **Advanced Cell Bypass**

The Advanced Cell Bypass feature enables the ROBICON Perfect Harmony air-cooled drives to remain operational in the event of a cell failure by bypassing a faulted cell. Depending on the process requirement and the Variable Frequency Drive configuration, a cell fault could have minimal or no impact on the process; the motor output power quality remains within defined guidelines.

# **ProToPS Process-First Mentality**

ROBICON Perfect Harmony's Process
Tolerant Protection Strategy (ProToPS)
provides a hierarchical system of
warnings that keep ROBICON Perfect
Harmony air-cooled drives on line and
in control of your process. Drive trips
and process interruptions only occur
in extreme circumstances. ProToPS
allows time for the operator to
evaluate a VFD disturbance and respond
appropriately to avoid system shutdown.

# Technical Data at a glance:



## Specification

#### **Motor connection**

- GenIV 2.3 to 6.6 kV– GenIIIe 2.3 to 7.2 kV

# Power quality

- Converter efficiency (without transformer): > 98.5%

## **Auxiliary voltage**

- 380 V / 50 Hz, 400 V / 50 Hz, 415 V / 50 Hz\*
- 460 V / 60 Hz, 480 V / 60 Hz\*

#### Line-side rectifier

## Motor-side inverter

- LV-IGBT power cells

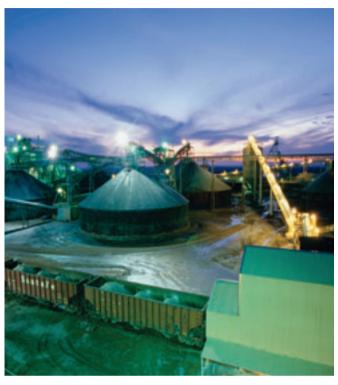
#### Cooling

 Forced-air-cooled with optional redundant fans

# Degree of protection

#### **Environmental conditions**

- Temperature: 0–40°C (32–104°F), up to 50°C (122°F) with derating
- Installation altitude: up to 1000 m (3300 ft) and up to 4000 m (13,200 ft) with derating





#### Safety features (not complete)

- Short circuit and ground fault protection
- Over-current, over- and under-voltage protection
- · Loss of line voltage protection
- Over-temperature protection (VFD and motor)
- Over-speed and stall protection (motor)
- Monitoring of cooling circuit
- Self-diagnosis of control and power cells

#### Control

- V/Hz control without speed encoder
- Vector control with and without speed encoder (optional)
- Speed accuracy: +/- 0.1% with speed encoder, +/- 0.5% without speed encoder
- Torque accuracy: +/- 2%
- Field weakening range 1:3
- Maximum output frequency: 330 Hz (above 167 Hz with derating)

# Control I/O

Analog inputs: 3\*Analog outputs: 2\*Digital inputs: 20\*Digital outputs: 16\*

 Communication: Modbus, optional: DeviceNet, PROFIBUS, Control Net\*

# • Speed encoder (optional)

#### **Standards**

• NEMA, CE, UL, CSA

#### Selection of additional options

- ProToPS process-tolerant protection system
- Redundant fans
- Advanced cell bypass
- EMC filter
- Anti-condensation heater
- Increase of protection class up to IP42
- Keyed interlock systems
- Duct flanged for connection to an external exhaust system
- Additional I/O modules
- Serial communication with various bus systems
- Control and display instruments in the door
- Ethernet and/or RS232 port connectors
- PT100 monitoring (motor windings and bearings)
- Distribution class surge arrestors (transformer)
- Input and output earthing switch
- · Choke for long cable lengths

<sup>\*</sup> additional using optional modules

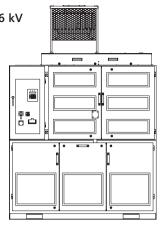
Motor voltage 3.3 kV											
Output			Shaft output				No. of				
current	rating [kVA]	[kW]	•	Transformer [kVA]	Order number (MLFB)	Generation	cells	Outline			
[A] 40	225	189	[hp] 254	300	6SR4102-0[]A33-0[][]0	GenIV	9	A			
70	400	331	444	450	6SR4102-0[]B34-5[][]0	GenIV	9	A			
100	570	473	634	700	6SR4102-0[]C37-0[][]0	GenIV	9	A			
140	800	662	887	900	6SR4102-0[]D38-7[][]1	GenIV	9	A			
200	1140	970	1300	1500	6SR4102-0[]E41-5[][]0	GenIV	9	A			
		1261	1690			GenIV					
260	1485			1750	6SR4102-0[]F41-7[][]0		9	A			
315	1800 2140	1527	2047	2250	6SR3102-1[]G42-2[][]0	GenIlle	9	В			
375	2855	1818 2424	2437	2500	6SR3102-1[]H42-5[][]0	GenIlle	9	В			
500			3250	3500	6SR3102-1[]J43-5[][]0	GenIIIe	9	В			
Motor voltage 4.0/4.16 kV											
Output		Type Shaft output		Transformer	Oud an income box (NALED)	Generation	No. of	Outline			
current [A]	rating [kVA]	[kW]	[hp]	[kVA]	Order number (MLFB)	Generation	cells	Outline			
40	275	229	307	400	6SR4102-0[]A34-0[][]0	GenIV	9	А			
70	480	401	538	600	6SR4102-0[]B36-0[][]0	GenIV	9	A			
100	690	573	768	800	6SR4102-0[]C38-0[][]0	GenIV	9	A			
140	965	802	1075	1100	6SR4102-0[]D41-1[][]0	GenIV	9	A			
200	1385	1175	1576	1750	6SR4102-0[]E41-7[][]0	GenIV	9	A			
260	1800	1528	2048	2250	6SR4102-0[]F42-2[][]0	GenIV	9	A			
315	2265	1925	2581	3000	6SR3102-3[]G43-0[][]0	GenIIIe	12	В			
375	2700	2292	3073	3500	6SR3102-3[]H43-5[][]0	GenIlle	12	В			
500	3600	3056	4097	5000	6SR3102-3[]J45-0[][]0	GenIlle	12	В			
660	4755	4034	5408	6000	6SR3102-3[]K46-0[][]0	GenIIIe	12	В			
Motor voltage 6.0 kV											
Output	Туре	Shaft	output	Transformer	Order number (MLER)	Generation	No. of	Outline			
Output current	Type rating			Transformer [kVA]	Order number (MLFB)	Generation	No. of cells	Outline			
Output	Туре	Shaft ([kW]	output [hp] 461			Generation GenIV		Outline			
Output current [A]	Type rating [kVA] 415	[kW] 344	[hp] 461	[kVA] 500	6SR4102-2[]A35-0[][]0	GenIV	cells 15				
Output current [A] 40 70	Type rating [kVA] 415 725	[kW] 344 602	[hp] 461 807	[kVA] 500 900	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0		cells 15 15	C C			
Output current [A] 40 70 100	Type rating [kVA] 415 725 1035	[kW] 344 602 860	[hp] 461	[kVA] 500 900 1250	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0	GenIV GenIV GenIV	cells 15 15 15	C C			
Output current [A] 40 70 100 140	Type rating [kVA] 415 725 1035 1450	[kW] 344 602 860 1203	[hp] 461 807 1152 1613	[kVA] 500 900 1250 1750	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0	GenIV GenIV GenIV GenIV	cells  15 15 15 15	C C C			
Output current [A] 40 70 100 140 200	Type rating [kVA] 415 725 1035 1450 2075	[kW] 344 602 860 1203 1763	[hp] 461 807 1152 1613 2363	500 900 1250 1750 2500	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0	GenIV GenIV GenIV GenIV GenIV	cells  15 15 15 15 15	C C C			
Output current [A] 40 70 100 140 200 260	Type rating [kVA] 415 725 1035 1450 2075 2700	[kW] 344 602 860 1203 1763 2292	[hp] 461 807 1152 1613	500 900 1250 1750 2500 3500	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0	GenIV GenIV GenIV GenIV GenIV	cells 15 15 15 15 15 15 15	C C C C			
Output current [A] 40 70 100 140 200	Type rating [kVA] 415 725 1035 1450 2075	[kW] 344 602 860 1203 1763	[hp] 461 807 1152 1613 2363 3073	500 900 1250 1750 2500	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0	GenIV GenIV GenIV GenIV GenIV	cells 15 15 15 15 15 15 15 15	C C C C B			
Output current [A] 40 70 100 140 200 260 315 375	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895	[kW] 344 602 860 1203 1763 2292 2777 3306	[hp] 461 807 1152 1613 2363 3073 3722 4432	500 900 1250 1750 2500 3500 4000 5000	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIII	cells  15 15 15 15 15 15 15 15 15	C C C C B B			
Output current [A] 40 70 100 140 200 260 315	Type rating [kVA] 415 725 1035 1450 2075 2700 3270	[kW] 344 602 860 1203 1763 2292 2777	[hp] 461 807 1152 1613 2363 3073 3722	500 900 1250 1750 2500 3500 4000	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIV	cells 15 15 15 15 15 15 15 15	C C C C B			
Output current [A] 40 70 100 140 200 260 315 375 500 660	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855	[kW] 344 602 860 1203 1763 2292 2777 3306 4408	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0 6SR3102-5[]H45-0[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIIIe GenIIIe	cells  15 15 15 15 15 15 15 15 15 15	C C C C B B B B			
Output current [A] 40 70 100 140 200 260 315 375 500 660	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855	[kW] 344 602 860 1203 1763 2292 2777 3306 4408 5818	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909 7800	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000 8000	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0 6SR3102-5[]H45-0[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIIIe GenIIIe	cells 15 15 15 15 15 15 15 15 15 15 15	C C C C B B B B			
Output current [A] 40 70 100 140 200 260 315 375 500 660  Motor volt Output	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855 age 6.6 kV	[kW] 344 602 860 1203 1763 2292 2777 3306 4408 5818	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000 8000	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]J46-0[][]0 6SR3102-5[]J46-0[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIIIe GenIIIe GenIIIe	cells 15 15 15 15 15 15 15 15 15 15 15 No. of	C C C C B B B B B			
Output current [A] 40 70 100 140 200 260 315 375 500 660	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855	[kW] 344 602 860 1203 1763 2292 2777 3306 4408 5818	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909 7800	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000 8000	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0 6SR3102-5[]H45-0[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIIIe GenIIIe	cells 15 15 15 15 15 15 15 15 15 15 15	C C C C B B B B			
Output current [A] 40 70 100 140 200 260 315 375 500 660  Motor volt Output current	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855 age 6.6 kV Type rating	[kW] 344 602 860 1203 1763 2292 2777 3306 4408 5818	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909 7800	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000 8000	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]J46-0[][]0 6SR3102-5[]J46-0[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIIIe GenIIIe GenIIIe	cells 15 15 15 15 15 15 15 15 15 15 15 No. of	C C C C B B B B B			
Output current [A] 40 70 100 140 200 260 315 375 500 660  Motor volt Current [A]	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855 cage 6.6 kV Type rating [kVA]	[kW] 344 602 860 1203 1763 2292 2777 3306 4408 5818	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909 7800  output [hp]	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000 8000  Transformer [kVA]	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]J46-0[][]0 6SR3102-5[]J46-0[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIIle GenIIIe GenIIIe GenIIIe	cells  15  15  15  15  15  15  15  15  15  No. of cells	C C C C C B B B B Outline			
Output current [A] 40 70 100 140 200 260 315 375 500 660  Motor volt Output current [A] 40	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855 cage 6.6 kV Type rating [kVA] 455	[kW] 344 602 860 1203 1763 2292 2777 3306 4408 5818  Shaft	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909 7800  output [hp] 507	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000 8000  Transformer [kVA] 600	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]J46-0[][]0 6SR3102-5[]K48-0[][]0  Order number (MLFB)	GenIV GenIV GenIV GenIV GenIV GenIV GenIIle GenIIIe GenIIIe GenIIIe GenIIII	cells  15  15  15  15  15  15  15  15  15  No. of cells	C C C C B B B B B			
Output current [A] 40 70 100 140 200 260 315 375 500 660  Motor volt current [A] 40 70	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855 age 6.6 kV Type rating [kVA] 455 800	[kW] 344 602 860 1203 1763 2292 2777 3306 4408 5818  Shaft	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909 7800  output [hp] 507 887	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000 8000  Transformer [kVA] 600 900	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]J46-0[][]0  Order number (MLFB)  6SR4102-2[]A36-0[][]0 6SR4102-2[]B38-7[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIIIe GenIIIe GenIIIe GenIIIe GenIIIE	cells  15  15  15  15  15  15  15  15  15  1	C C C C C B B B B B C Outline C C C			
Output current [A] 40 70 100 140 200 260 315 375 500 660  Motor volt Output current [A] 40 70 100	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855 age 6.6 kV Type rating [kVA] 455 800 1140	[kW] 344 602 860 1203 1763 2292 2777 3306 4408 5818  Shaft (kW) 378 662 946	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909 7800  output [hp] 507 887 1268	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000 8000  Transformer [kVA] 600 900 1500	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]J46-0[][]0 6SR3102-5[]K48-0[][]0  Order number (MLFB)  6SR4102-2[]A36-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-5[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIIle GenIIIe GenIIIe GenIIIe GenIIII	cells  15  15  15  15  15  15  15  15  15  1	C C C C C B B B B C Outline C C			
Output current [A] 40 70 100 140 200 260 315 375 500 660  Motor volt Current [A] 40 70 100 140	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855 age 6.6 kV Type rating [kVA] 455 800 1140 1600	[kW] 344 602 860 1203 1763 2292 2777 3306 4408 5818  Shaft (	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909 7800  output [hp] 507 887 1268 1775	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000 8000  Transformer [kVA] 600 900 1500 2000	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]J46-0[][]0 6SR3102-5[]K48-0[][]0  Order number (MLFB)  6SR4102-2[]A36-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-5[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIIIe GenIIIe GenIIIe GenIIIe GenIIIE GenIIIE	cells  15  15  15  15  15  15  15  15  15  1	C C C C C B B B B C Outline C C C			
Output current [A] 40 70 100 140 200 260 315 375 500 660  Motor volt Output current [A] 40 70 100 140 200	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855 6855 6855 800 1140 1600 2285	[kW] 344 602 860 1203 1763 2292 2777 3306 4408 5818  Shaft (kW] 378 662 946 1324 1939	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909 7800  output [hp] 507 887 1268 1775 2600	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000 8000  Transformer [kVA] 600 900 1500 2000 3000	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]C41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]G44-0[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]J46-0[][]0 6SR3102-5[]K48-0[][]0  Order number (MLFB)  6SR4102-2[]A36-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]D42-0[][]0 6SR4102-2[]D42-0[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIIle GenIIIe GenIIIe GenIIIe GenIII GenIIV GenIV GenIV GenIV GenIV GenIV	cells  15 15 15 15 15 15 15 15 15 15 15 15 15	C C C C C B B B B C Outline C C C C			
Output current [A] 40 70 100 140 200 260 315 375 500 660  Motor volt Current [A] 40 70 100 140 200 260	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855 6855 6855 6855 6850 1140 1600 2285 2970	[kW] 344 602 860 1203 1763 2292 2777 3306 4408 5818  Shaft [kW] 378 662 946 1324 1939 2521	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909 7800  output [hp] 507 887 1268 1775 2600 3380	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000 8000  Transformer [kVA] 600 900 1500 2000 3000 3500	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]K48-0[][]0  Order number (MLFB)  6SR4102-2[]A36-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]D42-0[][]0 6SR4102-2[]E43-0[][]0 6SR4102-2[]E43-0[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIIIe GenIIIe GenIIIe GenIIIe GenIII GenIV GenIV GenIV GenIV GenIV GenIV GenIV	cells  15  15  15  15  15  15  15  15  15  1	C C C C C B B B B B C C C C C C C C C C			
Output current [A] 40 70 100 140 200 260 315 375 500 660  Motor volt Output current [A] 40 70 100 140 200 260 315	Type rating [kVA] 415 725 1035 1450 2075 2700 3270 3895 5195 6855 age 6.6 kV Type rating [kVA] 455 800 1140 1600 2285 2970 3600	[kW] 344 602 860 1203 1763 2292 2777 3306 4408 5818  Shaft [kW] 378 662 946 1324 1939 2521 3055	[hp] 461 807 1152 1613 2363 3073 3722 4432 5909 7800  output [hp] 507 887 1268 1775 2600 3380 4095	[kVA] 500 900 1250 1750 2500 3500 4000 5000 6000 8000  Transformer [kVA] 600 900 1500 2000 3000 3500 5000	6SR4102-2[]A35-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]C41-2[][]0 6SR4102-2[]D41-7[][]0 6SR4102-2[]E42-5[][]0 6SR4102-2[]F43-5[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]H45-0[][]0 6SR3102-5[]J46-0[][]0 6SR3102-5[]K48-0[][]0  Order number (MLFB)  6SR4102-2[]A36-0[][]0 6SR4102-2[]B38-7[][]0 6SR4102-2[]D42-0[][]0 6SR4102-2[]D42-0[][]0 6SR4102-2[]E43-0[][]0 6SR4102-2[]F43-5[][]0 6SR4102-2[]F43-5[][]0	GenIV GenIV GenIV GenIV GenIV GenIV GenIIIe GenIIIe GenIIIe GenIIIe GenIIIe GenIIV GenIV GenIV GenIV GenIV GenIV GenIV GenIV GenIV	cells  15  15  15  15  15  15  15  15  15  1	C C C C C C B B B B B C C C C C C C C C			

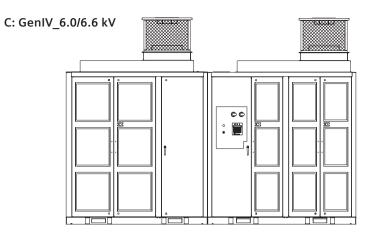
6SR3102-7[]K48-0[][]0

GenIIIe

В

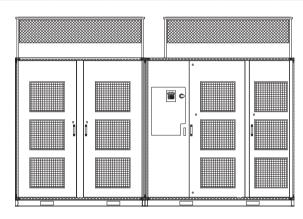
# A: GenIV\_4.0/4.16 kV





Output Voltage	Motor		System Cabinet Sizing								
			Cabinet Length		Cabinet	Cabinet Height <sup>1</sup> )		Cabinet Depth		Blower Cage Height	
	[kW]	[hp]	mm	inch	mm	inch	mm	inch	mm	inch	
4.0/4.16 kV	148-814	200-1100	1676	66	2184	86	1067	42	610	24	
	925–1665	1250-2250	2083	82	2184	86	1143	45	851	33.5	
6.0/6.6 KV	222-925	300-1250	4166	164	2289	90.1	1143	45	638	25.1	
	1110-2590	1500-3500	4166	164	2289	90.1	1143	45	638	25.1	

# B: GenIIIe



Output Voltage	Motor		System Cabinet Sizing								
			Cabinet Length		Cabinet Height <sup>1</sup> )		Cabinet Depth		Blower Cage Height		
	[kW]	[hp]	mm	inch	mm	inch	mm	inch	mm	inch	
3.3 kV	1295-1850	1750-2500	4369	172	2324	91.5	1270	50	648	25.5	
	2220-2960	3000-4000	4775	188	2324	91.5	1270	50	673	26.5	
	1480-1850	2000-2500	4877	192	2324	91.5	1270	50	673	26.5	
4 kV	2220-2960	3000-4000	5283	208	2324	91.5	1270	50	673	26.5	
	3700-4440	5000-6000	5893	232	2324	91.5	1270	50	724	28.5	
6 kV	1665–1850	2250-2500	5893	232	2324	91.5	1372	54	724	28.5	
	2220–2960 3700–4440	3000–4000 5000–6000	6299 6909	248 272	2324 2324	91.5 91.5	1372 1372	54 54	724 724	28.5 28.5	
	5180	7000	6909	272	2527	99.5	1372	54	724	28.5	
6.6 kV-7.2 kV	1850	2500	5893	232	2324	91.5	1372	54	724	28.5	
	2220-2960	3000-4000	6299	248	2324	91.5	1372	54	724	28.5	
	3700-4440	5000-6000	6909	272	2324	91.5	1372	54	724	28.5	
	5180-5920	7000-8000	6909	272	2527	99.5	1372	54	724	28.5	

<sup>1)</sup> Height without blowers

Siemens AG Industry Sector Large Drives P.O. Box 47 43 90025 NÜRNBERG GERMANY Subject to change without prior notice Order No.: E20001-A30-P590-V1-7600 Dispo 21503 BRES/28141 GD.LD.XX.SIGM.52.0.04 WS 07103.0 Printed in Germany

Printed in Germany © Siemens AG 2010 The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.