

Fact sheet | iC7-Automation Enclosed Drives

Need more intelligence, with streamlined integration?

iC7-Automation Enclosed Drives deliver high torque performance in an ultra compact format. iC7-Automation Enclosed Drives open up new application opportunities with flexible system integration in a wide range of industries. Optimized for compact footprint, ease of use and fast serviceability, you can apply these drives to enhance motor control.

Versatile

iC7 Enclosed Drives are available in standard cabinet sizes, configured in the right variant to suit your application:

- 6-pulse, low-harmonic, and regenerative variants
- Wide range of options

Feature	Benefit
Robust by design, high uptime and quality	 Reliable in heavy-duty service
Segregated main cooling channel, (IP21 or IP54) and dedicated PCB area	– Extremely reliable in heavy-duty service
Wide range of pre-designed options	- Flexible to meet any application need
Heat management using heat pipe techno- logy and segregated main cooling channel	– High power density, reduced footprint
Integrated options such as functional extensions, output filters, fuses and disconnects mean no extra external devices are required	– Save cost and time in installation
Installer-friendly design includes pluggable control terminals, easy-access power terminals, and easily replaceable fans	– Save cost and time in installation and service
Modular and scalable solutions for high powers Simplified spare unit handling	– Fast integration and serviceability
Pull-out of power unit without removing motor or mains cables, included with integration unit	– Fast and easy serviceability
Safe door-in-door access to the control compartment	– Safe and fast serviceability



ENGINEERING TOMORROW

HIGHLIGHTS

- Ultra compact
- Modular and configurable drive
- STO and SS1-t SIL3 as standard
- Functional safety by fieldbus: PROFIsafe
- Scalable control platform
- Powerful hardware-based security including end-toend encrypted data transfer
- Connectivity with multiple fieldbuses. Áctivate new fieldbus by license key • Industrial IoT-ready with
- secure OPC UA
- High-torque machine performance
- Superior motor control





Key specifications

Input	
Voltage rating	380-500 V AC, +10%/-15%
Supply frequency	50/60 Hz
Switching on input ^{1]}	6-pulse: 1-2 times per minute Low-harmonic and regenerative: Switch on twice at 60 s interval, followed by 10 minutes cooling-down period
Grid type	TN, TT, IT, Delta
Output	
Output frequency	0-599 Hz
Switching on output	Unlimited
Overload capacity	110/150% – 1 min every 5 min
Environmental conditions	
Rated temperature	-15 to 40 °C (5 to 104 °F)
Maximum temperature with derating	50℃ (122°F)
Rated altitude	1000 m (3300 feet) or up to 4,000 m (13,124 ft) with derating
Relative humidity	5-95% non condensing
Functional Safety I/O	
STO and SS1-t	Dual-channel, with galvanic isolation
STO and SS1-t feedback	Single channel, with galvanic isolation

External supply	
Rating	24 V/2 A
Basic I/O	
Digital inputs	6, single-ended
Relay outputs	3 • 2 x NO, NC • 1 x NO • 250 V AC 3 A max. (50/60 Hz) • 24 V DC 2
Analog inputs	2 • -20/0 to +20 mA or -10/0 to +10 V
Analog output	1 • 0-20 mA or 0-10 V resistive load
Thermistor input	1, isolated
Compliance	
Compliance	IEC 61800-5-1

^{1]} Refer to Design Guide for more information.

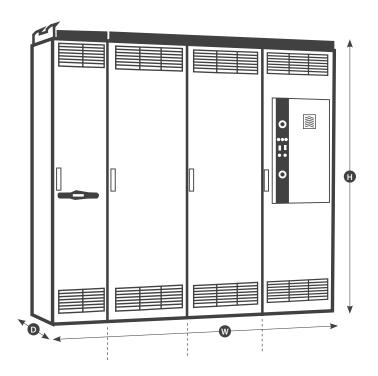
Key specifications for 6-pulse, low-harmonic or regenerative enclosed drives

Environmental	6-pulse	Low-harmonic & regenerative	
Voltage rating	3 x 380-500 V AC, -15%/+10%		
Current range	206-588 A	385-1710 A	
Overload capacity	110/150% for 1 minute every 5 minutes 1]		
Protection rating	IP21/UL Type 1, IP54		

¹⁾ 1 minute every 10 minutes, for frames FE9 and FE10 1 minute every 5 minutes, for all other frames

Control options

Functional extensions	Description
General Purpose I/O OC7C0	General purpose I/O extension board (3xDI, 2xDO, 2xAI, 1xAO)
Relay Option OC7R0	Relay I/O extension board, with 3 relays
Encoder/Resolver Option OC7M0	Encoder/Resolver extension board (TTL, HTL, SinCos, SSI, HIPERFACE, EnDat, BiSS, resolver)
Temperature Measurement OC7T0	Temperature measurement extension board with 5 channels
I/O and Relay Option OC7C1	I/O extension



Dimensions

		6-pulse enclosed drives		Low-harmonic & regenerative enclosed drives			
Frame		FE09	FE10	AE10 + IE10	AE11 + IE11	2 x AE10 + 2 x IE10	2 x AE11 + 2 x IE11
[mm]	Width	400	600	800	1200	2200	2400
	Height	2300 1]	2300 1]	2300 1] 2]	2300 1] 2]	2300 1] 2]	2300 1] 2]
	Depth	600	600	600	600	600	600
[in]	Width	15.7	23.6	31.5	47.2	86.6	94.5
	Height	90.6 ^{1]}	90.6 1]	90.6 1] 2]	90.6 1] 2]	90.6 1] 2]	90.6 1] 2]
	Depth	23.6	23.6	23.6	23.6	23.6	23.6

¹¹ With 200 mm/7.8 in plinth and lifting rails, without lifting rails -101 mm/4.0 in ²¹ If IP21 cabinet total height is 2400 mm/94.5 in







Cabinet options

4GAC0 Mains control on switch 4GAC8 Aricult breaker fixed 6Forum fixed fixed fixed Mains switch 4GCR5 Aricult breaker fixed 4GCR6 Aricult breaker fixed 4GCR6 Grounding device 4GCR6 Grounding witch Motor heater control 44000 4H0X None 4H0X None 4GCR6 Motor fan control 4H0X None 4H0X None </th <th>Mains input device</th> <th>+GAXX</th> <th>None</th>	Mains input device	+GAXX	None
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+OAOF Cooling air outlet flange			
+OABC Back-channel cooling			
Maintenance options +QAXX None	Maintenance options		-
+QALS Lifting support for power unit		+QALS	Lifting support for power unit

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