

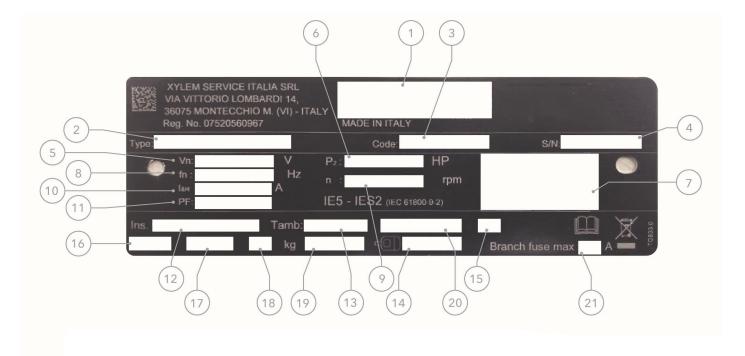


hydrovar® X Smart Motor Specifications

EXM56/3.040BH2

4 HP, 1200-4000 RPM, 3PH, 60HZ, 200-240V 56 Frame, TEFC

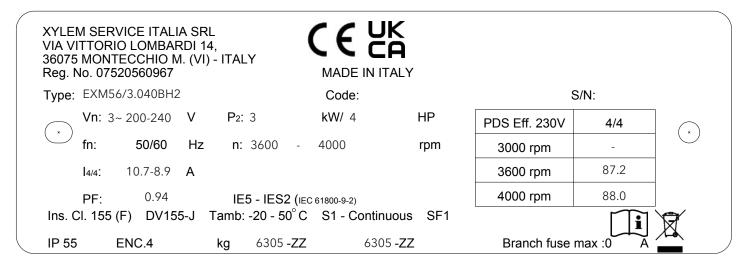
hydrovar X Nameplate Legend



- 1. Certification markings (CE, UKCA, UL Recognized)
- 2. Motor type
- 3. Motor code
- 4. Unique motor serial number
- 5. Voltage range
- 6. Output power (kW / HP)
- 7. Full load rated PDS efficiency (motor and drive combined efficiency)
- 8. Frequency compatibility
- 9. Full load rated speed
- 10. Full load rated current range

- 11. Power factor
- 12. Insulation class
- 13. Ambient operating temperature
- 14. Non-drive end bearing
- 15. Service factor
- 16. IP environmental protection rating
- 17. NEMA environmental protection rating
- 18. Weight
- 19. Drive end bearing
- 20. Duty cycle rating
- 21. Circuit protection requirement

hydrovar X Nameplate Information (representative example)*

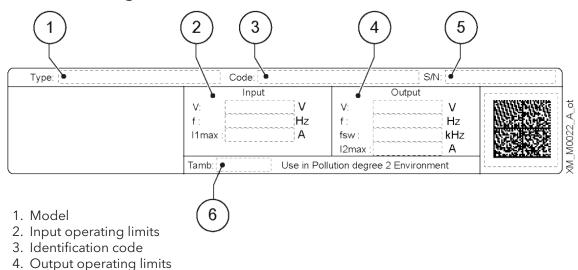


^{*}This is a representative example of the actual data that will be displayed on the Nameplate for the motor combination featured in this document.

hydrovar X Data Plate Legend

5. Serial number

6. Room temperature range



hydrovar X Data Plate Information (representative) image*

Type: 10534394-0005	С	ode: 13014105	1		S/	N: 93748W	/IJ0000K
XYLEM SERVICE ITALIA SRL VIA VITTORIO LOMBARDI 14, 36075 MONTECCHIO M. (VI) - ITALY Reg. No. 07520560967	V: f: l1max:	Input 3 ~ 200 - 480 50 / 60 13	V Hz A	V: f: fsw: l2max:	Output 0 ÷ VIn 0 ÷ 133 2 ÷ 16 12	V Hz kHz A	
MADE IN GERMANY C 7529771	Tamb:	-20 ÷ 50°C	Use in	Pollution	degree 2 Envi	ronment	151 TO 18 TO 18

 $[\]mbox{^*}\mbox{Data}$ Plate contains values for the motor combinations specified in this document.

Motor Type: EXM56/3.040BH2

NEMA Frame	Part Number	Weight lbs (kg)
56C	130635011	53 (24)
56J	130635051	53 (24)

Combined Motor and Drive Specifications

Description	Value				
Motor HP	4				
Enclosure	TEFC				
Frame Material	Cast Iron/Aluminum				
Nominal Voltage @ Frequency	230V @ 60Hz				
XP Class	None				
XP Division	Not Applicable	2			
Agoney Amprovale	UL	CE			
Agency Approvals	FCC	UKCA			
Insulation Class	F				
Bearing Grease Type	Polymer 400				
Lifting Lugs	Standard				
Voltage	200-240V (+/- 10%)				
Phase	3				
Input Current (200-240V)	10.7-8.9 A				
Power Factor	0.94				
Forting Bullet	IP55				
Enclosure Rating	NEMA4				
	-4 to +122° F				
Tamb	-20 to +50° C				
DE Bearing	6305-ZZ				
ODE Bearing	6305-ZZ				
Duty Cycle	S1				

Combined Motor and Drive Performance (Nominal Voltage)¹

Rated Speed	Torque (lb.ft)	Efficiency 100%	Efficiency 75%	Efficiency 50%	Sound Pressure dB(A) ²
4000 RPM	5.28	88.0	87.8	86.4	70
3600 RPM	5.87	87.2	87.1	85.9	64
3000 RPM	-	-	-	-	-

 $^{^1}$ Motor may operate below 3600 RPM at partial load. Efficiency represents PDS (power-drive-system) efficiency.

Drive Features and Specifications

Description	Value
Display	Graphic color display
Communication Protocols	MODBUS® RTU BACnet MS/TP
Mobile App	Bluetooth®
Control Modes	Actuator, Constant pressure, Proportional pressure, Proportional quadratic pressure, Constant flow, Constant temperature, Constant level
RS485 Ports	2
Analog Inputs	4
Analog Input Configuration	0-20 mA / 4-20 mA / 0-10V / 2-10V
Digital Inputs*	5
Analog Outputs	1
Analog Output Configuration	0-20 mA / 4-20 mA / 0-10V / 2-10V
Relay Output (Form C)*	2
10V Supply	1
Leakage Current	< 3.5 mA
Storage Temperature	-40 to +158° F -40 to +70° C
Altitude (without derating)	0 to 3281 ft [0-1000 m]
Humidity	Max 95% non-condensing

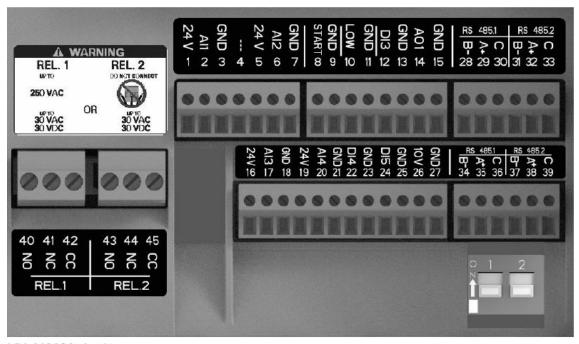
 $[\]mbox{\ensuremath{\,^\star}}$ See Auxiliary Connections data on the next page for more detail.

hydrovar X with Feet



²Sound power measured at 1m distance in no-load condition according to ISO 9614-2 and sound pressure values determined according to the ISO 11203 method. Sound pressure tolerance is +/- 2 dB for all voltages.

Auxiliary Connections



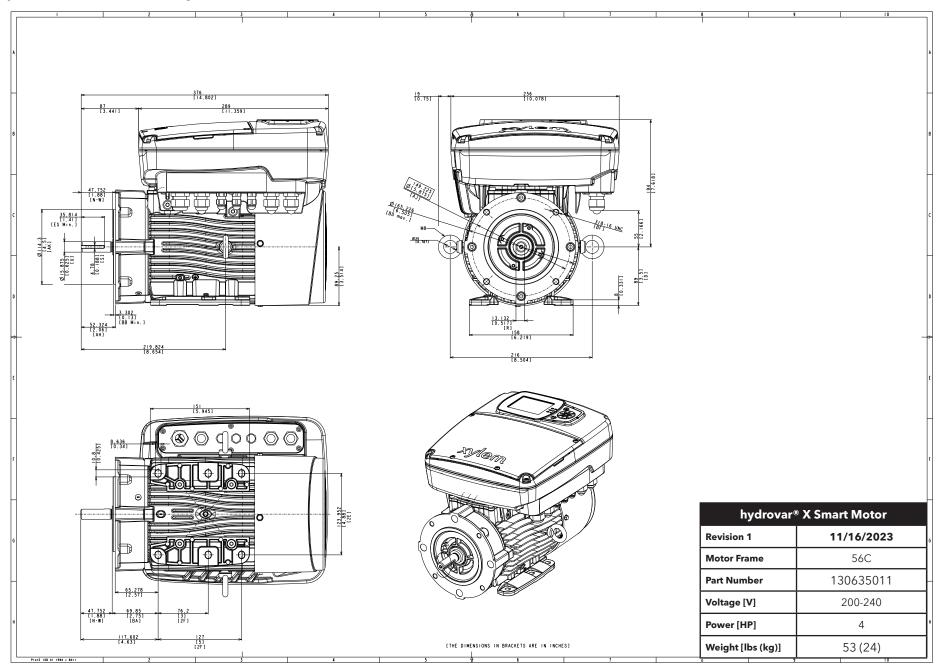
XM_M0020_A_ph

Position number	Name	Description	Default setting	
1		Power supply +24 VDC, max. 60 mA (total, terminals 1 + 5)	Pressure sensor 1	
2	Analog input 1	Configurable Analog input 1		
3]	Electronic GND		
4	Reserved	For internal use, do not connect	-	
5		Power supply +24 VDC, max. 60 mA (total, terminals 1 + 5)		
6	Analog input 2	Configurable Analog input 2	Not selected	
7		Electronic GND	7	
8	External start/stop	Digital start/stop input, internal pull-up +24 VDC, contact current 6 mA	-	
9	·	Electronic GND	7	
10	External lack of water	Low water level digital input, internal pull-up +24 VDC, contact current 6 mA	-	
11		Electronic GND	7	
12	Digital Input 3	Configurable digital input 3, internal pull-up +24 VDC, contact current 6 mA	Emergency start at maximum	
13		Electronic GND	speed	
14		Configurable Analog output	NA . C . I	
15	Analog output	Electronic GND	Motor Speed	
16		Power supply +24 VDC, max. 60 mA (total, terminals 16 and 19)		
17	Analog input 3	Configurable Analog input 3	Not selected	
18]	Electronic GND	7	

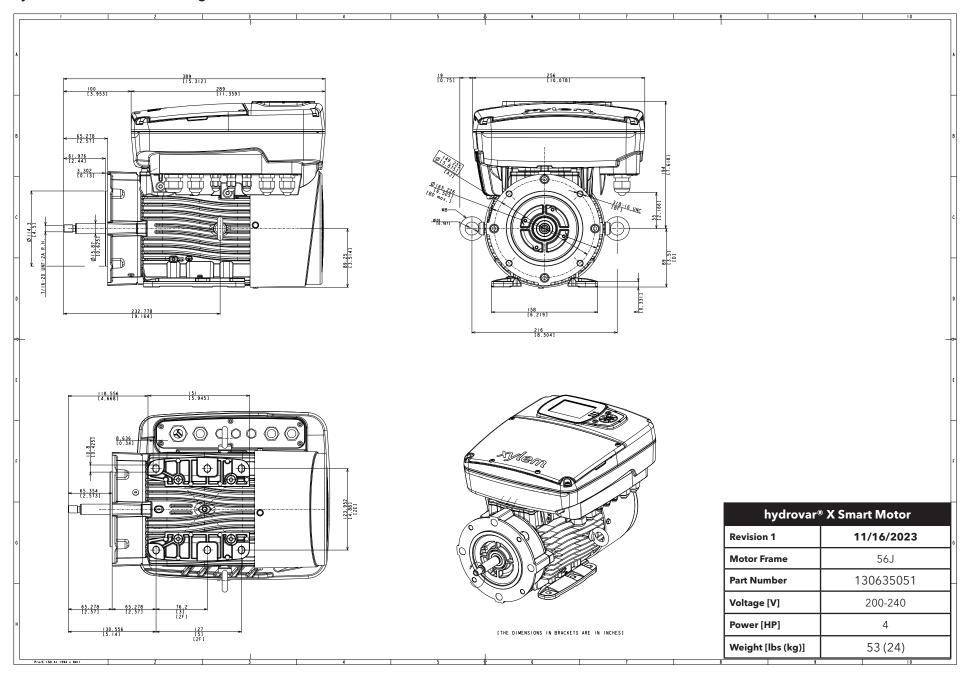
Auxiliary Connections (Continued)

Position number	Name	Description	Default Setting	
19		Power supply +24 VDC, max. 60 mA (total, terminals 16 and 19)		
20	Analog input 4	Configurable Analog input 4	Not selected	
21		Electronic GND		
22	Digital input 4	Configurable digital input 4, internal pull -up +24 VDC, contact current 6mA	Not selected	
23		Electronic GND		
24	Digital input 5	Configurable digital input 4, internal pull -up +24 VDC, contact current 6mA	Not selected	
25	J. J. Pro-	Electronic GND		
26	10.1/D.C	Power supply +10 VDC, max. 3 mA		
27	10 VDC power supply	Electronic GND] -	
28		RS485 port 1: RS485-1B N (-)		
29	Communication Bus 1	RS485 port 1: RS485-1A P (+)	Multipump	
30		RS485 port 1: RS485-COM		
31		RS485 port 2: RS485-2B (-)		
32	Communication Bus 2	RS485 port 2: RS485-2A P (+)	MODBUS	
33		RS485 port 2: RS485-COM		
34		RS485 port 1: RS485-1B N (-)		
35	Communication Bus 1	RS485 port 1: RS485-1A P (+)	Multipump	
36		RS485 port 1: RS485-COM		
37		RS485 port 2: RS485-2B N (-)		
38	Communication Bus 2	RS485 port 2: RS485-2A P (+)	MODBUS	
39		RS485 port 2: RS485-COM		
40		Configurable relay 1: normally open		
41	Relay 1	Configurable relay 1: normally closed	Error Reporting	
42		Configurable relay 1: normally contact		
43		Configurable relay 2: normally open		
44	Relay 2	Configurable relay 2: normally closed	Motor start	
45		Configurable relay 2: normally contact		

hydrovar X Smart Motor Drawings



hydrovar X Smart Motor Drawings



NOTES

NOTES

Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com

Xylem Product Cybersecurity

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