

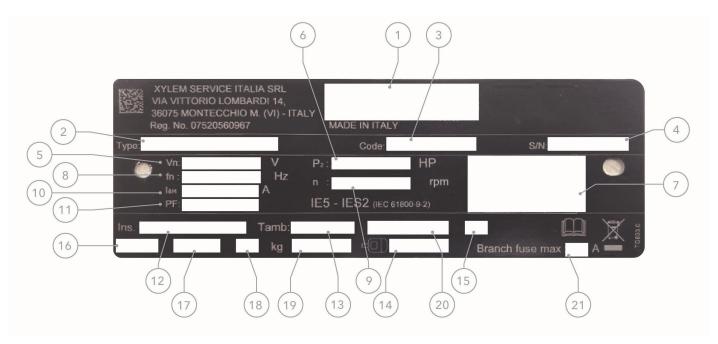


hydrovar® X Smart Motor Specifications EXM254-256/4.300DH2

30 HP, 1200-4000 RPM, 3PH, 60HZ, 380-480V 254-256 Frame, TEFC

XY-hyXeXM-SUB-530 R1

hydrovar X Nameplate Legend



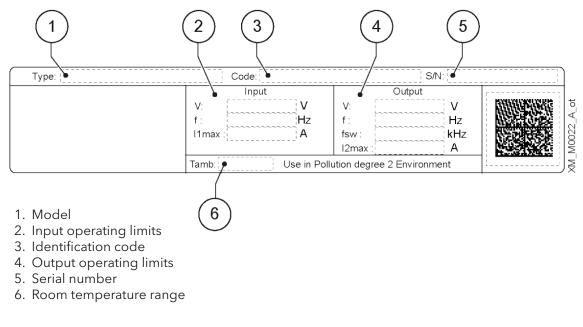
- 1. Certification markings (CE, UKCA, UL Recognized)
- 2. Motor type
- 3. Motor code
- 4. Unique motor serial number
- 5. Voltage range
- 6. Output power (kW / HP)
- 7. Full load rated PDS efficiency (motor and drive combined efficiency)
- 8. Frequency compatibility
- 9. Full load rated speed
- 10.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

XYLEM SERVICE ITALIA SRL VIA VITTORIO LOMBARDI 14, 36075 MONTECCHIO M. (VI) - Reg. No. 07520560967						
Type: EXM254-256/4.300DH2		Code:		S	S/N:	
Vn: 3~ 380-480 V	P ₂ : 22	kW / 30	HP	PDS Eff. 460V	4/4	×
fn: 50/60 Hz	n: 3000 -	4000	rpm	3000 rpm	92.1	Ċ
I4/4: 38.9-32.4 A				3600 rpm	92.5	
PF : 0.90	IE5 - IES2 (IEC 6	61800-9-2)		4000 rpm	92.4	
Ins. Cl. 155 (F) DV155-J T	amb: -20 - 50 [°] C	S1 - Continuous	SF1		i	Ø
IP 55 ENC.4	kg 6310 -ZZ	6308 -ZZ		Branch fuse	max :0 A	

*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

hydrovar X Data Plate Information (representative) image*

Type: 10534398-0004	Code: 130141091			S/N: 93748WIQ00004			
XYLEM SERVICE ITALIA SRL VIA VITTORIO LOMBARDI 14, 36075 MONTECCHIO M. (VI) - ITALY Reg. No. 07520560967 MADE IN GERMANY C	V: f: l1max:	Input 3 ~ 200 – 480 50 / 60 50	V Hz A	V: f: fsw: l2max:	Output 0 ÷ VIn 0 ÷ 133 2 ÷ 8 60	V Hz kHz A	
GERMANY C E529771	Tamb:	-20 ÷ 50°C	Use in	Pollution	degree 2 Env	ironment	A A A A A A A A A A A A A A A A A A A

*Data Plate contains values for the motor combinations specified in this document.

Motor Type: EXM254-256/4.300DH2

NEMA Frame	Part Number	Weight lbs (kg)
254-256T	130637130	182 (83)
254-256TC	130637170	187 (85)
254-256JM	130637210	187 (85)
254-256JM (footed)	130638210	187 (85)

Combined Motor and Drive Specifications

Description	Value			
Motor HP	30			
Enclosure	TEFC			
Frame Material	Cast Iron/Alum	num		
Nominal Voltage @ Frequency	460V @ 60Hz			
XP Class	None			
XP Division	Not Applicable			
A zongr Annyovala	UL	CE		
Agency Approvals	FCC	UKCA		
Insulation Class	F			
Bearing Grease Type	Polymer 400			
Lifting Lugs	Standard			
Voltage	380-480 V (+/- 10%)			
Phase	3			
Input Current (380-480V)	38.9-32.4 A			
Power Factor	0.90			
	IP55			
Enclosure Rating	NEMA4			
	-4 to +122° F			
Tamb	-20 to +50° C			
DE Bearing	6310-ZZ			
ODE Bearing	6308-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	38.83	92.4	91.6	90.2	75
3600 RPM	43.04	92.5	91.8	90.6	68
3000 RPM	51.65	92.1	91.7	90.7	64

¹Motor may operate below 3000 RPM at partial load. Efficiency represents PDS (power-drive-system) efficiency.

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.

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

 * See Auxiliary Connections data on the next page for more detail.

hydrovar X with Feet



Auxiliary Connections

A WARNING REL. 1 REL. 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
250 VAC 0R 30 VAC 30 VAC 30 VAC 30 VDC	
000 000	A B A A B A B B B B C B B A A B A B B B C B B A B A B A B A B B B C B B A B A B A B A B B B C B B A C B A C B A C B A C B A C D A C D A C D A C D A C D A C D A C D A C D A C D A C D A C D A C D A C D A C D A C D A C D A C D A C D A C D A
40 41 42 43 44 45 5 5 6 5 6 5 6	ARRENTER TRAFFIC

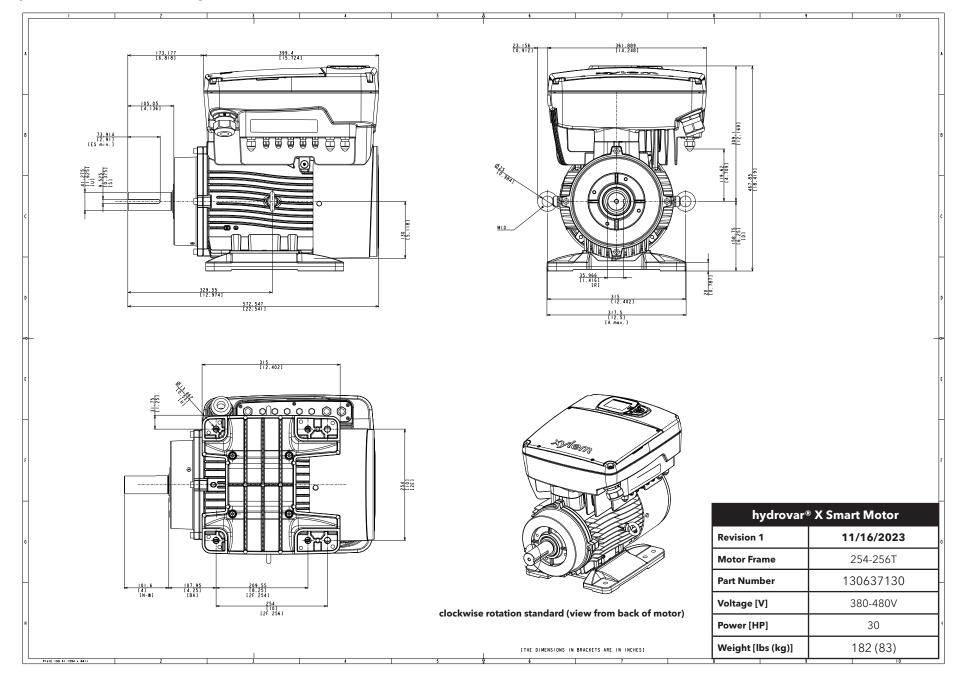
XM_M0020_A_ph

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

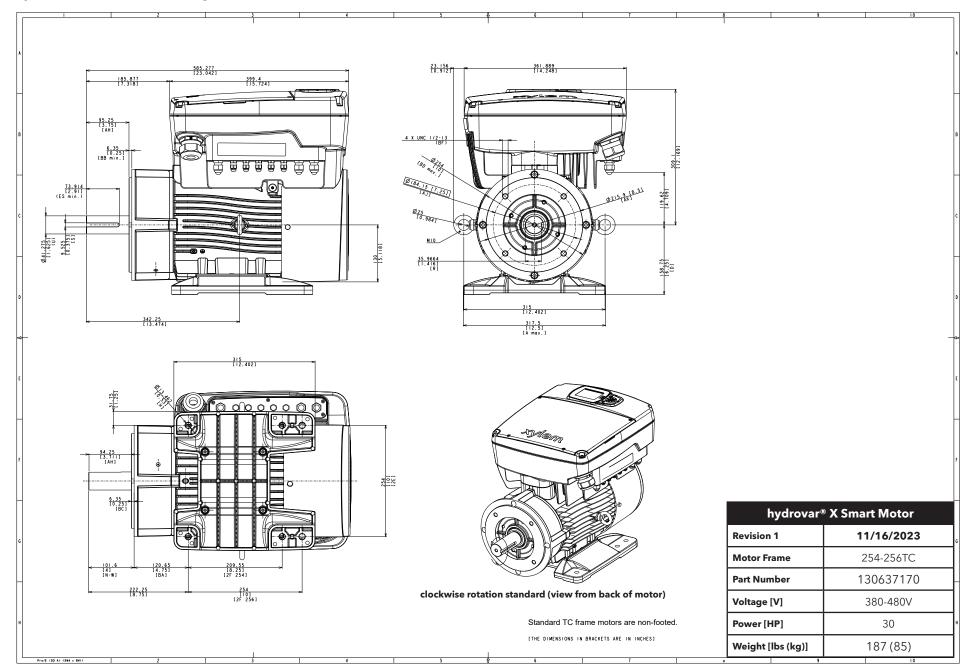
Auxiliary Connections (Continued)

Position number	Name	Description	Default Setting	
19		Power supply +24 VDC, max. 60 mA (total, terminals 16 and 19)	, Not selected	
20	Analog input 4	Analog input 4 Configurable Analog input 4		
21		Electronic GND		
22	Configurable digital input 4, internal pull -up +24Digital input 4VDC, 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		Electronic GND		
26		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		

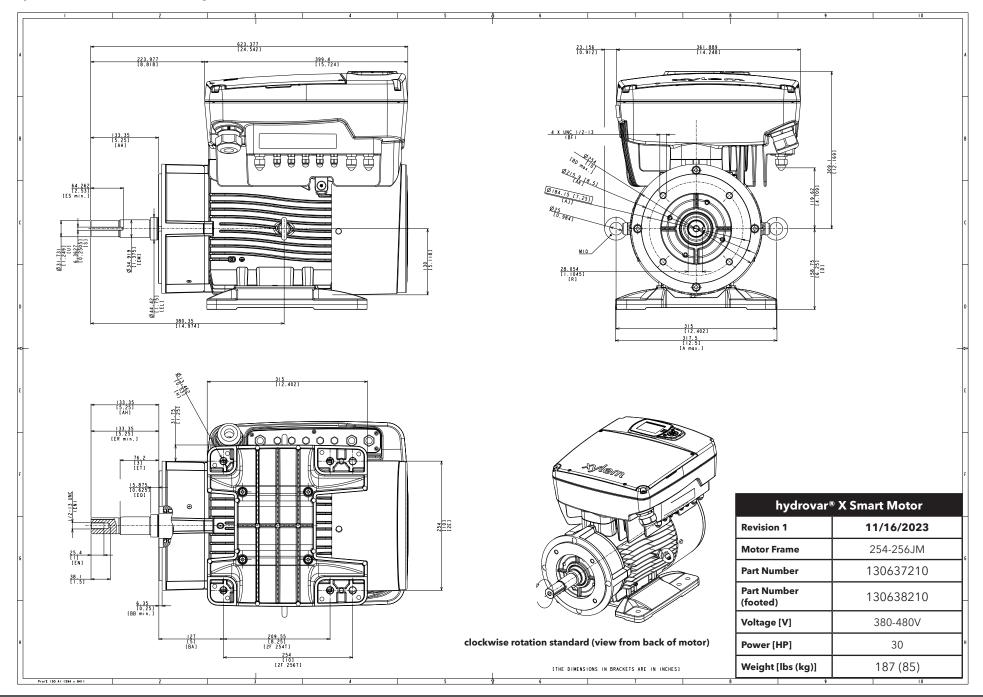
hydrovar X Smart Motor Drawings



hydrovar X Smart Motor Drawings



hydrovar X Smart Motor Drawings



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

Xylem values your system security and the availability of your critical services. For more information on Xylem cybersecurity practices or to contact the cybersecurity team please visit www.Xylem.com/security.



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