

DX-620

Decentralized variable frequency drives



DX-620

Install faster. Commission smarter. Keep everything moving.

DX-620 brings high-performance motor control directly to the machine — on the motor or on the side — so you can simplify wiring, standardize zones, and replace units in minutes without disrupting operations.

Plug in fast. Mount any way.



Motor Mount

- Direct-connect motor bracket with drop-in fit.
- Mounting at full rated performance aligned with gearmotor M1 – M6 positions.
- Motor-ready robustness by design – IP55 housing and 3M7 vibration rating.



Wall Mount

- Plug-in wall bracket with drop-in fit.
- Orientation-free mounting at full rated performance.
- Line-side durability — IP65 housing and 3M6 vibration rating.

One drive, any motor

Best in class, future proof motor control.

Add features, not size

Over 12,000 factory fit variants.

Safe at the core

Dual-channel STO for SIL 3 / PL e safety architectures.

Tough by design

Engineered to protect what matters:
–4 °F to +122 °F operation;
IP65 / 3M6 (WM), IP55 / 3M7 (MM).

More power, less space

Exceptional power density with
2 frame sizes (up to 21 A).

Industrial-grade power connectors

Plug in & power up; faster installs,
easier servicing, reduced downtime.



Fully configurable I/O



Up to 6 digital inputs (DI)



High-load digital outputs
(Up to 1A per channel with external 24V supply)



Dedicated maintenance key & FWD/REV control



Integrated isolator switch



Built-in brake rectifier



RJ45 port with RS485

Traditional serial access for monitoring & commissioning.

Ultra-fast USB-C

Real-time commissioning & bus-powered parameterization via PC or mobile (no mains required).

Hot-plug removable memory

Swap the drive. Keep the settings for instant set-up.

Ring-ready Ethernet

Dual-port with DLR/MRP support for resilient networking.

Safe & simple maintenance

On-device key-switch maintenance control for local operations.

One supply, many drives

Power pass-through for daisy-chain installations.



High performance open loop control



Universal encoder support

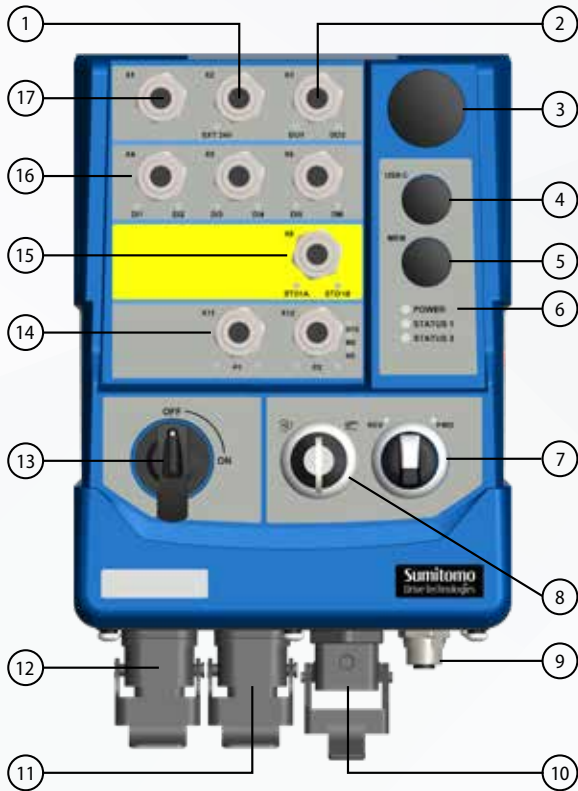


Integrates with all common bus systems

INSTALL THE DX-620 IN ANY ORIENTATION



Specification



Label	Description
1	External 24V input (X2)
2	Digital Outputs (X3)
3	RJ45 port for PC connection (RS485 port, not for ethernet)
4	USB-C port for PC connection
5	Removable memory
6	Status LED's
7	FWD / 0 / REV switch
8	Key lock switch
9	Encoder input (X13)
10	Braking resistor output
11	Mains output (for daisy chain)
12	Mains input
13	Isolator switch
14	Ethernet fieldbus (Profinet, Ethernet/IP) (X11; X12)
15	Safe Torque Off Input (STO) (X9)
16	Digital Inputs (X4; X5; X6)
17	Isolator auxiliary contact
18	Motor-mount bracket
19	Wall-mount bracket
20	Motor output

DX-620 Motor mount

DX-620 Wall mount



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		Motor Mount		Wall Mount	
Size		1	2	1	2
Height	mm	275	321	275	312
	inch	10.82	12.64	10.83	12.28
Width	mm	172	204	200	230
	inch	6.77	8.03	7.87	9.05
Depth	mm	178	180	224	224
	inch	7.01	7.09	8.81	8.81
Weight	kg	3	3.6	4.3	5.4
	lb	6.6	7.6	9.5	11.9

Note: Key switch and power plugs mounted on a gland plate are included.

		kW	HP	Amps	Frame	IP
Motor Mount	200-240V +10%/-15% 3 phase input	2.2	3	8.6	1	55
		4	5.5	15.3	2	55
	380-480V _10%/-15% 3 phase input	2.2	3	4.8	1	55
		4	5.5	12.7	2	55
Wall Mount	200-240V +10%/-15% 3 phase input	2.2	3	8.6	1	65
		5.5	7.5	21	2	65
	380-480V _10%/-15% 3 phase input	2.2	3	5.1	1	65
		7.5	10	17.3	2	65

DX-620 Product Code									
A	B	C	D	E	-	F	G	H	I
DM	1	2	#	#	-	#	#	#	#
DM	2	2	#	#	-	#	#	#	#
DM	1	4	#	#	-	#	#	#	#
DM	2	4	#	#	-	#	#	#	#
DW	1	2	#	#	-	#	#	#	#
DW	2	2	#	#	-	#	#	#	#
DW	1	4	#	#	-	#	#	#	#
DW	2	4	#	#	-	#	#	#	#

Replace # with option code from below

[A]	Product Family
DM	DX-620 motor mount
DW	DX-620 wall mount

[E]	Braking Options
0	No option
2	Motor parking brake

[B]	Frame Size
1	Size 1
2	Size 2

[F]	IO Options			
	2DI	4DI	6DI	DO
0 ⁽¹⁾				
1 ⁽¹⁾				■
2	■			
3	■			■
4		■		
5		■		■
6			■	
7			■	■

[C]	Supply Voltage Rating
2	200..240V AC
4	380..480V AC

[D]	Power Options				
	Q4/2 mains input	Q4/2 mains output	Q2/0 brake resistor	Isolator switch	Isolator switch+aux
0	■				
1	■			■	
2	■				■
3	■	■			
4	■	■		■	
5	■	■			■
6	■		■		
7	■		■	■	
8	■		■		■
9	■	■	■		
A	■	■	■	■	
B	■	■	■		■

[G]	Safe Torque Off (STO) Input
0	No STO input
1	Dual channel safe torque off (STO) input

[H]	Fieldbus Option
0 ⁽²⁾	No Fieldbus
1	EtherNet/IP®
2	Profinet

[I]	Additional Options	
	Local switches	Universal encoder
0		
4		■
6	■	
A	■	■

1) This option is not available in combination with Option 0 in field H (No Fieldbus).

2) This option is not available in combination with Option 0 or 1 in field F (No Digital Inputs).



Decentralized control applications

Decentralized control technology has become a key solution for efficient, scalable conveyor systems. Modern material handling environments demand drive control solutions that are simple to install, readily accessible during operation, and easy to service when maintenance is required. DX-620 meets all these requirements, providing advanced motor control directly on or near the motor.



Intralogistics

Conveyor systems play a critical role in the structured movement, monitoring, execution, and optimization of internal material and goods flow across industrial and commercial operations. DX-620 provides decentralized control options for conveyors in a wide range of intralogistics applications, including:

- Roller, belt and chain conveyor systems
- Corner transfer turntables
- Rotary turntables
- Automated traveling trolley systems

Airports

Reliable conveyor technology is fundamental to airport operations. High-efficiency baggage handling and transport systems support increased throughput, ensure regulatory compliance, and address the growing demands of modern air travel. DX-620 provides flexible, high performance decentralized control for:

- Integrated baggage handling systems
- Tray-based conveyor systems for baggage transport
- Air cargo handling solutions
- Automated sortation systems



Automotive

Conveyor technology is utilized throughout multiple stages of automotive manufacturing to ensure the efficient transport of components and assemblies. Our advanced conveyor control technology is engineered to support demanding decentralized production environments, including:

- Roller conveyor systems
- Precision turntables
- Automated traveling trolley units



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Configurator

Configure our products
to *your* needs.

- ★ MANUFACTURING HUB & HEADQUARTERS
- ★ MANUFACTURING HUB
- ASSEMBLY & SERVICE
- SERVICE
- ▲ REGIONAL SALES OFFICE