

Product Data Sheet

SM 1600 XL

Roll-Up High-Performance Door with Flexible Curtain Panels

HÖRMANN



The Speed-Master® High speed line of doors provide advanced controls and fast opening speeds.

- Rigid windbars allow the SM1600XL to be applied to larger door openings, without sacrificing strength.
- Tough 58 oz/yd² Commander fabric
- Durable hot-dipped galvanized steel guide tracks
- Variable frequency drive enables soft-start, soft-stop, decreasing drive system wear and Increasing product life

Key Product Information		Description		Remark
Application		Interior/Exterior		
Size Range	Width	4ft 0in - 20ft 0in	1219mm - 6096mm	
	Height	6ft 0in - 20ft 0in	1829mm - 6096mm	
Speed	Opening	Up to: 48 in/s	Up to: 1.22 m/s	Variable Speed Based on Opening Height
	Closing	Up to: 30 in/s	Up to: .76 m/s	
Windload		Up to WC3; 14.6psf		Per standard EN 12424, DASMA 108
Operational Temperature		-4 to 104°F		-20 to 40°C
Maximum Cycles Per Hour		23 cycles/hour		
Warranty		5 & 2 years. Motor / gearbox and Panels (5), all other mech. / elec. (2)		

● Standard ○ Optional

Safety Features	Description	
Light Curtains	Integrated UL325 Rated Light Curtains in Tracks Providing Touchless Safety	●
Reversing Edge	Electronic Wireless Reversing Edge (with Aluminum Bottom Bar) and UL 325 Thru-Beam Sensors	○
Emergency Egress in the Event of Power Failure	Chain Hoist	●
	UPS Battery Backup for 1ph 230V Feed – Non UL Rated	○
Anti-Fall	Integrated UL325 Anti-Fall device	●

Design Specifications		Description	Remark
Panel Design	Commander Panel	Abrasion Resistant 2-Ply 1/16in (1.5mm) Thick Poly-Reinforced 58Oz/Yd ² Vinyl	Available in White, Yellow, Orange, Red, Blue and Gray. ●
	Vision Section	Full Width Vision Panel 1/8in (3mm) Clear PVC	2 Vision ● 1 Vision or No Vision ○
	Screen Section	Vinyl coated 1000 density polyester core yarn in warp and fill. 0.03in (0.75mm) Thick, 10.3 oz./yd ²	Fabric Openness 46.9% ○ Full-Width Continuous Screen ○
	Windbars	6063-T6 Clear Anodized Extruded Aluminum	●
Bottom Edge	Aluminum Bottom Bar	6063-T6 Clear Anodized Aluminum with EPDM Rubber Edge and Loop Seal	●
Tracks		12Ga self supporting HDG steel tracks, 12Ga HDG steel covers	●
		12Ga self supporting 304 Stainless Steel tracks, 12Ga Stainless Steel covers	○
		Painted or Powder Coated Any RAL	○
Weather Seals	Lintel Seal	Black Polypropylene Brush	●
	Track Seals	Dual Black Polypropylene Brush Track Seals with UHMW Wear Guide	●

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Electrical Specifications		Description	Remark			
Drive System	Operator	Direct Drive 2hp Operator. 132V Δ 13.3 FLA (for 3ph feed)	See Control Box Requirements for Field Connection Voltage Feed Specifications	IP54	●	
	Encoder	Integrated DES Encoder for High Accuracy Door Positioning			●	
	Brake	Integrated 24 Vdc Holding Brake			●	
Control Box	On-Site Power Requirements	208 - 240V/3ph/60Hz	Reference Control Box Manual for Voltage Tolerances	Transformer Required for 208VAC 3ph	○	
		460-480V/3ph/60Hz		Transformer Required for 575VAC 3ph	○	
		575-600V/3ph/60Hz			●	
		Max 20 Amp Class CC Fuses Required			●	
	NXT VFD With Quick Connect Terminals				Listed Per UL 61800-5-1, UL325, and UL991	●
	Enclosure				NEMA 4X Indoor RAL7035 Light Gray Powder Coated Finish	●
					NEMA 4X Indoor 304 Stainless Steel	○
Other Features	10 Programmable Inputs and 3 Programmable Relay Outputs				●	
	Up to 2.4A of Onboard 24VDC for Accessories				●	
	Expansion Boards			1&2 Channel Loop Detectors; I/O Expansion Options	○	

Energy Analysis	Description		Remark
Visible Transmittance	0.83		Per calc ANSI / NFRC 200-2014 (Clear Vision Panels)
Solar Heat Gain Coefficient (G-Value)	0.81		Per test EN 717-1, DASMA TDS-163 (Without Vision)
Thermal Resistance (R-Value)	R 1.73 (ft² x °F x hr)/BTU	0.3 (m² x K)/W	Per test EN 717-1, DASMA TDS-163 (Without Vision)
Heat Transfer Coefficient (U-Factor)	U 0.58 BTU/(hr x ft² x °F)	3.30 W/(m² X K)	Per test EN 12667: 199997-11, DASMA TDS-105
Acoustic Insulation	STC 24	Rw 21 dB	Per test EN 717-2, ASTM E90



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