

Product Data Sheet

SM 1600 L

Roll-Up High-Performance Door with Flexible Curtain Panels



- Tough, 2-ply reinforced puncture resistant Bulldog XT fabric panels
- Panels joined with continuous, heavy-duty aluminum hinges, available with optional Windlocks for greater wind pressures
- Durable hot-dipped galvanized steel guide tracks
- Variable frequency drive enables soft-start, soft-stop, decreasing drive system wear and increasing product life

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

Key Product Information		Description		Remark
Application		Interior/Exterior		
Size Range	Width	4ft 0in - 17ft 0in	1219mm - 5182mm	See Door Size Matrix Below
	Height	6ft 0in - 16ft 0in	1829mm - 4877mm	
Speed	Opening	Up to: 60 in/s	Up to: 1.5 m/s	Variable Speed Based on Opening Height
	Closing	Up to: 30 in/s	Up to: 0.76 m/s	
Windload		Up to WC2; 10 psf		See Door Size Matrix Below 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	●

Speed Master 1600L - SIZE MATRIX

Door Height	mm	ft/in									
	4877	16' 0"									
	4724	15' 6"									
	4572	15' 0"									
	4420	14' 6"									
	4267	14' 0"									
	4115	13' 6"									
	3962	13' 0"									
									
	1829	6' 0"									
	mm	ft/in	1219	...	4267	4420	4572	4724	4877	5029	5182
	ft/in	ft/in	4' 0"	...	14' 0"	14' 6"	15' 0"	15' 6"	16' 0"	16' 6"	17' 0"
			Door Width								
Differential Pressure (Psf)			± 10				± 7				
Windload Class (EN12424)			2				1				

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● Standard ○ Optional

Design Specifications		Description	Remark
Panel Design	Bulldog XT	Abrasion Resistant 2-Ply 1/8in (2.8mm) Thick Poly-Reinforced 90Oz/Yd ² Vinyl	Available in Orange, Blue, Black, 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 ○
	Aluminum Hinge Profiles	6063-T6 Clear Anodized Extruded Aluminum	●
Bottom Edge	Aluminum Bottom Bar	6063-T6 Clear Anodized Aluminum with EPDM Rubber Edge and Loop Seal	●
		PVC Breakaway tabs designed to fail upon curtain impact	●
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	●

Electrical Specifications		Description	Remark
Drive System	Operator	Direct Drive 2hp Operator. See Control Box Requirements 132V Δ 13.3 FLA (for 3ph feed) for Field Connection Voltage 230V WYE 6.3 FLA (for 1ph feed) 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	Transformer Required for 208VAC 3ph ○
		460-480V/3ph/60Hz	Reference Control Box Manual for Voltage Tolerances ○
		575-600V/3ph/60Hz	Transformer Required for 575VAC 3ph ○
		230V/1ph/60Hz	Max Door Size = 10' 0" x 10' 0" ○
		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	●
		5A 24VDC Additional Power Supply	○
	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 (ft ² x °F x hr)/BTU	R 0.3 (m ² x K)/W
Heat Transfer Coefficient (U-Factor)		U 0.58 BTU/(hr x ft ² x °F)	3.30 W/(m ² XK)
Acoustic Insulation		STC 24	Rw 21 dB
			Per test EN 12667: 199997-11, DASMA TDS-105
			Per test EN 717-2, ASTM E90



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