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Data Sheet

Low Voltage Metal Enclosed Switchgear UL1558 Style Switchgear

GENERAL

	Standard Features	Deviation/Exception/Options
Application	<input type="checkbox"/> Marine <input type="checkbox"/> Industrial	<input type="checkbox"/> Other: _____
Structure Standard	ANSI C37.20.1, UL 1558	
Breaker Standard	UL 1066	
Temperature Rise	<input type="checkbox"/> 65°C @ 40°C Ambient (105°F)	<input type="checkbox"/> 45°C Ambient (Bus Derated by .95) <input type="checkbox"/> 50°C Ambient (Bus Derated by .92) <input type="checkbox"/> Other: _____ (See note 3 for derating formula)

ELECTRICAL RATINGS

Incoming Voltage	<input type="checkbox"/> 480V, 3PH, 3W <input type="checkbox"/> 480/277V, 3PH, 4W	<input type="checkbox"/> 600V, 3PH, 3W <input type="checkbox"/> 600/347V, 3PH, 4W <input type="checkbox"/> 208/120V, 3PH, 4W <input type="checkbox"/> Other: _____
Frequency	<input type="checkbox"/> 60Hz	<input type="checkbox"/> 50Hz <input type="checkbox"/> Other: _____
UL Label Req'd:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Main Bus Size	<input type="checkbox"/> 1600A <input type="checkbox"/> 2000A <input type="checkbox"/> 2500A <input type="checkbox"/> 3200A <input type="checkbox"/> 4000A <input type="checkbox"/> 5000A <input type="checkbox"/> 6000A (1) <input type="checkbox"/> 8000A (1) <input type="checkbox"/> 10,000A (1) <input type="checkbox"/> Other : _____ (Consult Factory)	
Short Circuit Rating and Bracing (amps sym)	Instantaneous (4 cycle, X/R = 6.6) <input type="checkbox"/> 35 KA <input type="checkbox"/> 85 KA <input type="checkbox"/> 42 KA <input type="checkbox"/> 100 KA <input type="checkbox"/> 50 KA <input type="checkbox"/> 65 KA	<input type="checkbox"/> 150 KA <input type="checkbox"/> 200 KA
System Grounding	<input type="checkbox"/> Solidly Grounded	<input type="checkbox"/> High Resistance <input type="checkbox"/> Ungrounded
Bussing Type	<input type="checkbox"/> Silver plated copper	<input type="checkbox"/> Tin Plating <input type="checkbox"/> Insulated Main and Vertical Bus (2)
Neutral Bus	<input type="checkbox"/> None	<input type="checkbox"/> 100% <input type="checkbox"/> 50%

Data Sheet

Low Voltage Metal Enclosed Switchgear (Continued)

STRUCTURAL DETAILS

	Standard Features	Deviation/Exception/Options
Enclosure Type	<input type="checkbox"/> NEMA 1	<input type="checkbox"/> NEMA 1 gasketed (Bus derating required) <input type="checkbox"/> NEMA 2 <input type="checkbox"/> NEMA 3R <input type="checkbox"/> Walk-in <input type="checkbox"/> Non-Walk-in <input type="checkbox"/> Filtered and Gasketed (Bus derating required)
Service Entrance	<input type="checkbox"/> No	<input type="checkbox"/> Yes
Breaker Door	<input type="checkbox"/> Thru Door Design (5)	<input type="checkbox"/> Behind Door Design (Requires 3.5" of add'l depth)
Depth (4)	<input type="checkbox"/> 50.5" <input type="checkbox"/> 53.5" <input type="checkbox"/> 56.5" <input type="checkbox"/> 59.5" <input type="checkbox"/> 62.5" <input type="checkbox"/> 65.5" <input type="checkbox"/> 68.5" <input type="checkbox"/> 71.5" <input type="checkbox"/> 74.5" <input type="checkbox"/> 77.5"	<input type="checkbox"/> Bus and cable compartment not required to be separated by barriers. Depth can be reduced by 11 inches. (1) <input type="checkbox"/> Other: _____ (Consult Factory)
Paint	<input type="checkbox"/> ANSI 61	<input type="checkbox"/> Other: _____ <input type="checkbox"/> Interior Mounting Pans White
Barriers	<input type="checkbox"/> None Required	<input type="checkbox"/> Main bus and cable compartments <input type="checkbox"/> Between cable sections <input type="checkbox"/> Between main bus compartment <input type="checkbox"/> Rodent Proof
Channel Base	<input type="checkbox"/> None	<input type="checkbox"/> 1-1/2" x 3" channel <input type="checkbox"/> Other: _____
Transition	<input type="checkbox"/> None Required	<input type="checkbox"/> Required, Transition to: _____

MISCELLANEOUS DETAILS

Breaker Manufacturer	<input type="checkbox"/> Any <input type="checkbox"/> C-H DSII <input type="checkbox"/> GE Wavepro <input type="checkbox"/> C-H Magnum <input type="checkbox"/> Sq-D NW <input type="checkbox"/> Other : _____
Nameplates	<input type="checkbox"/> White w/ Black Letters <input type="checkbox"/> Reverse Engraved <input type="checkbox"/> Black w/ White Letters
Control Power	<input type="checkbox"/> 24VDC <input type="checkbox"/> 120VAC <input type="checkbox"/> 48VDC <input type="checkbox"/> Other: _____ <input type="checkbox"/> 125VDC
Breaker Trip Unit Type	<input type="checkbox"/> ZSI <input type="checkbox"/> Ammeter Measurements <input type="checkbox"/> LSIG (3W) <input type="checkbox"/> Power Measurements <input type="checkbox"/> LSIG (4W) <input type="checkbox"/> Harmonics/ Waveform Capture <input type="checkbox"/> LSGA – Alarm Only
Breaker Accessories	<input type="checkbox"/> Std. Aux 2a/2b <input type="checkbox"/> 4a/4b Aux <input type="checkbox"/> 6a/6b Aux <input type="checkbox"/> Cell Switch <input type="checkbox"/> Shunt Trip <input type="checkbox"/> Shutters <input type="checkbox"/> OTS (2) form C <input type="checkbox"/> UVR <input type="checkbox"/> Operations Counter <input type="checkbox"/> Mechanical Key Interlock <input type="checkbox"/> Electric Operators
Metering	<input type="checkbox"/> Analog 1% <input type="checkbox"/> Digital <input type="checkbox"/> Analog 2%
Other Options:	<input type="checkbox"/> Certified Drawings by 3 rd party <input type="checkbox"/> Space Heaters and Thermostats <input type="checkbox"/> Overhead Lifter <input type="checkbox"/> Installation above 6600 ft (Derate, see ANSI C37.20.1) <input type="checkbox"/> Full Function test kit <input type="checkbox"/> Electric Breaker Racker <input type="checkbox"/> High Resistance Package (5A) <input type="checkbox"/> SC & C Study <input type="checkbox"/> Color Coded Control Wiring <input type="checkbox"/> 10AWG CT wiring (12AWG Std.) <input type="checkbox"/> Non-Standard Shipping Splits (8-10 ft std.) <input type="checkbox"/> TVSS <input type="checkbox"/> PT's Required <input type="checkbox"/> Customer Witness Testing <input type="checkbox"/> DC control power from External <input type="checkbox"/> Handheld Test Kit <input type="checkbox"/> Hinged Rear Doors <input type="checkbox"/> All wires terminated with ring lugs <input type="checkbox"/> Test Switches <input type="checkbox"/> Bus Duct, note details in comment section <input type="checkbox"/> From-To wire markers <input type="checkbox"/> Space Heater source local <input type="checkbox"/> Incoming Power cable Lugs Required <input type="checkbox"/> Other: _____ <input type="checkbox"/> Compression <input type="checkbox"/> Mechanical <input type="checkbox"/> Other: _____

Data Sheet

Low Voltage Metal Enclosed Switchgear (Continued)

Additional comments/requirements:

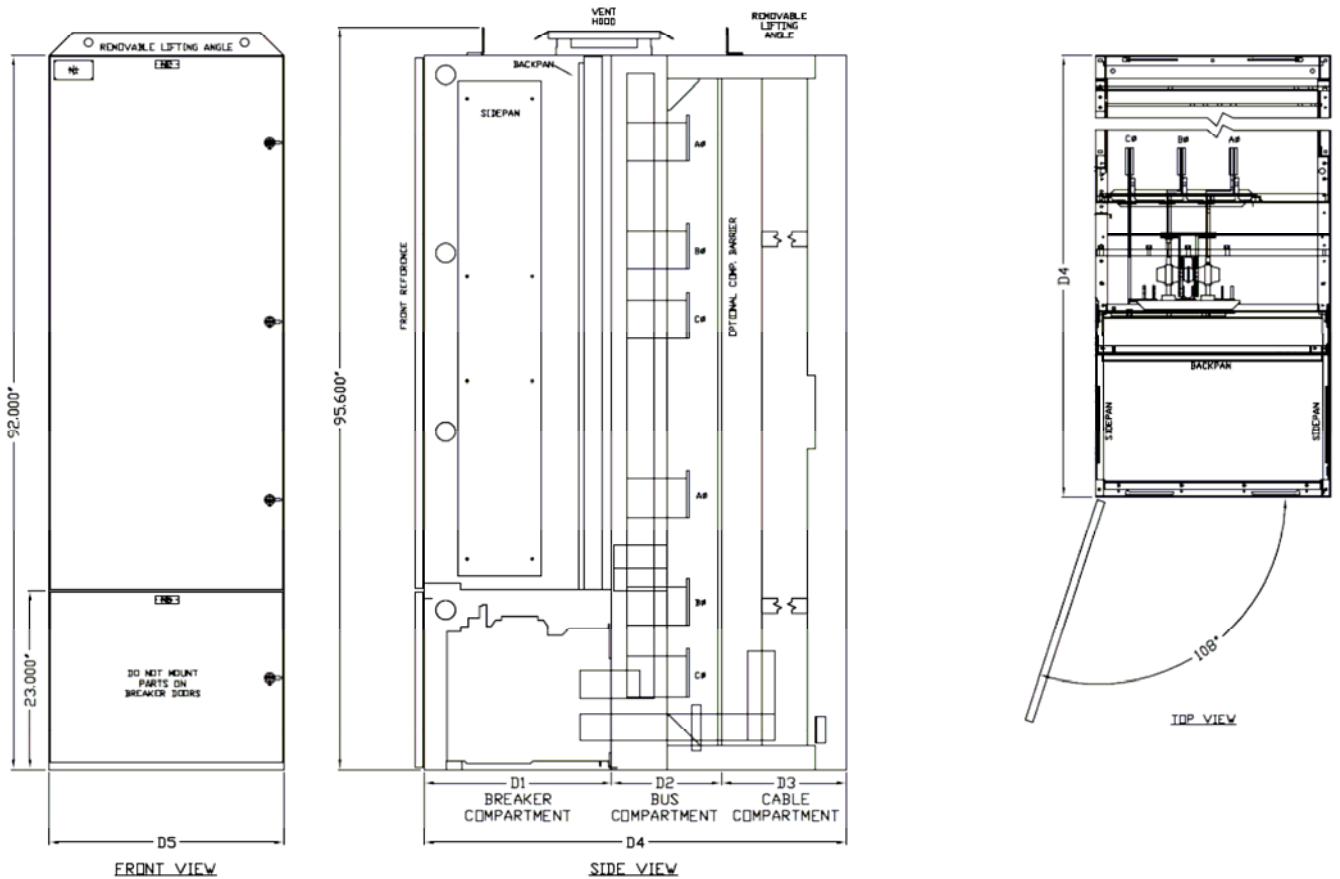
Notes:

1. Cannot be UL labeled.
2. Bus coated with an insulating spray. Joints are exposed. Contact factory if other insulating methods required.
3. $((105 - \text{Ambient}) / 65)^{1/2}$
4. Sufficient cable entrance space must be considered in determining overall depth. Consult factory for guidance. Minimum depth is 56.5" for equipment with breakers 2500A thru 3200A. Breakers 4000A and above require minimum depth of 71.5".
5. Not applicable for C-H DSII type breakers.

Data Sheet Completed By: _____

Date: _____

Project: _____



1. MINIMUM DEPTH CABLE COMPARTMENT FOR 2500AF @ 3200AF IS 19"
2. MINIMUM DEPTH CABLE COMPARTMENT FOR 'DOUBLE-WIDE' BREAKER IS 34"
3. ONLY ONE OTHER 2000AF (OR LESS), FEEDER BREAKER IS ALLOWED IN A SECTION WITH A 3200AF BREAKER.
4. FOR 3000AF, 3200AF, 4000AF, 5000AF AND 6300AF BREAKERS, THE MAIN BUS HAS TO BE ON THE OPPOSITE SIDE OF THE BREAKER. THIS MEANS THAT IF THE BREAKER IS IN THE 2ND CUBICAL FROM THE BOTTOM, THE MAIN BUS NEEDS TO BE IN THE UPPER LOCATION AND IF THE BREAKER IS IN THE 3RD CUBICAL FROM THE BOTTOM, THE MAIN BUS NEEDS TO BE IN THE LOWER LOCATION.
5. 3000AF, 4000AF, AND 5000AF BREAKERS CAN NOT BE LOCATED IN THE BOTTOM CUBICLE
6. 3200AF AND 6300AF BREAKERS CAN NOT BE LOCATED IN THE TOP OR BOTTOM CUBICLE
7. BALANCING CT'S ARE REQUIRED FOR ALL 'DOUBLE-WIDE' BREAKERS
8. 6300AF BREAKERS WILL BE BEHIND THE DOOR IN THE THRU THE DOOR DESIGN STRUCTURES
9. THE BREAKER IS NOT AVAILABLE AS 3200AF OR 6300AF
10. USE 30" WIDTH FOR SECTIONS WITH ADDITIONAL CONTROL SPACE
11. FOR UL891 STYLE DESIGNS THE MAXIMUM BREAKER FRAME SIZE IS 2000A
12. FOR 'DOUBLE-WIDE BREAKERS' WIDTH IS TWO 22" SECTIONS
13. STANDARD CABLE COMPARTMENT DEPTHS ARE 16", 19", 22", 25", 28", 31" AND 34"

DESCRIPTION	D1 IN	D2 IN	D3 IN	D5 IN	NOTES
UL1558 800A THRU 3200A	24	14		22, 24, 30	10
UL1558 800A THRU 3200A THROUGH THE DOOR	20.5	14		22, 24, 30	10
UL1558 4000A THRU 6300A	24	14	SEE NOTE 13	44	
UL1558 4000A THRU 5000A THROUGH THE DOOR	20.5	14		44	
UL891 800A THRU 2000A	24.125	N/A		24, 30	10
UL891 800 THRU 2000A THROUGH THE DOOR	20.375	N/A		24, 30	10

CH-MAGNUM UL1558 & UL891



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