



TSp Product Spec Sheet

THOR SYSTEMS, INC.
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SERIES TSp

100kA Per Mode

PANEL with SURGE PROTECTION

THOR SYSTEMS' TSp Series combines a UL67 Listed panelboard with an Integral UL1449 3rd Edition Listed Surge Protective Device (SPD). The SPD is self-contained from the critical bus structure by adding only 9" of height to the panelboard through the use of a panelboard accessory box. Utilizing 1000APSI copper bus bars and a 200% rated Neutral Bus for Non-Linear Loads, the TSp Series is available with any 20"W x 5-3/4"D panelboard; can be constructed for top or bottom feed and surface or flush mount applications.

GENERAL INFORMATION

Agency Listings	UL67 (Panelboard) UL1449 3rd Edition, UL1283 (TVSS)
Application	Industrial Panelboard
Warranty	5 Years

PANELBOARD INFORMATION

Manufacturer	GE, SQ-D, C-H, Siemens
Input	Main Lug or Main Breaker
Ampacity	60A – 400A
Circuits	27 or 39 Available Spaces
Voltage	120/240 Split Phase 120/208 3 Phase WYE 277/480 3 Phase WYE
Size	20"W x 5-3/4"D (See chart below) <i>For height dimensions)</i>
Neutral Bus	200% Rated for Non-Linear Loads
Bus Bars	1000APSI, Tin-plated Copper

SPD/TVSS INFORMATION

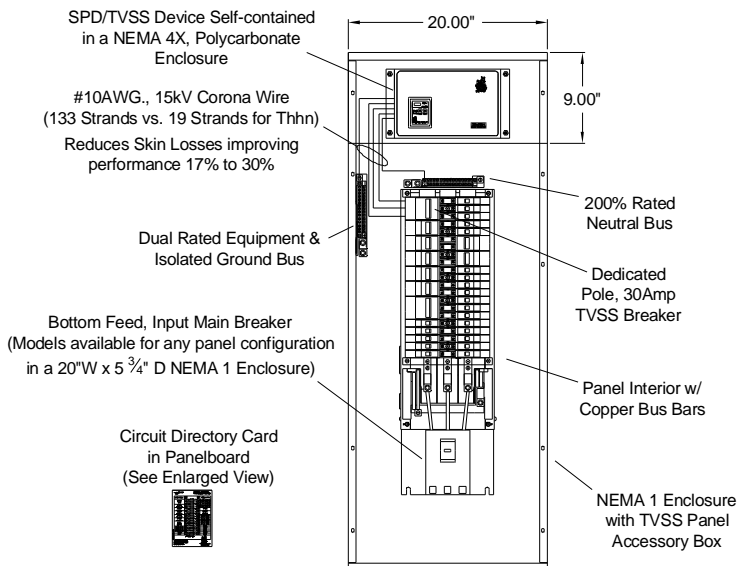
Protection Per Mode	100kA
Component Technology	3-Tier Hybrid TpMOV*/SAD/Capacitor <i>*Fail-safe design with arc shield</i>
AIC/SCCR	100,000 Amps
Response Time	<1 nanosecond
Printed Circuit Board	5-oz Parallel Copper Traces (rated 100kA both top & bottom), 4 Layers
Enclosure	Self-contained NEMA 4X Polycarbonate
Connection	Parallel Connected via 3-Pole, 30A Circuit Breaker in Panelboard

PANEL HEIGHT DIMENSIONS

(Consult Factory for other Panel Mfrs)

MFG	TYPE	CIRCUITS	AMPACITY		
			≤100 AMP	125 - 225 AMP	250 - 400 AMP
SQ-D	Main Lug	30	38"	N/A	N/A
	Main Lug	42	N/A	47"	62"
	Main Breaker	30	41"	N/A	N/A
	Main Breaker	42	N/A	59"	77"
GE	Main Lug	30	40-1/2"	46-1/2"	58-1/2"
	Main Lug	42	46-1/2"	52-1/2"	64-1/2"
	Main Breaker	30	40-1/2"	46-1/2"	64-1/2"
	Main Breaker	42	46-1/2"	52-1/2"	73-1/2"

Panelboard Series TSp (Main Breaker, Bottom Feed)



Circuit Directory Card in Panelboard (See Enlarged View)



Circuit Directory Card (Enlarged View)

PANEL DESIGNATOR		CIRCUIT DIRECTORY			
MDP1		PANELBOARD No. 289			
DESCRIPTION	CKT No.	CKT No.	DESCRIPTION	CKT No.	DESCRIPTION
3P 30A TVSS	1	2	1P 20A LGHT #1	3	4
	3	4	1P 20A LGHT #2	5	6
	5	6	1P 20A LGHT #3	7	8
	7	8	1P 20A LGHT #4	9	10
Pump #1	9	10	1P 20A LGHT #5	11	12
2P 50A	11	12	2P 30A	13	14
Pump #2	13	14	Tank #1	15	16
2P 50A	15	16	2P 30A	17	18
Pump #3	17	18	Tank #2	19	20
2P 50A	19	20	1P 20A SRPD	21	22
Pump #4	21	22	1P 20A SRPD	23	24
2P 50A	23	24	1P 20A SRPD	25	26
Pump #5	25	26	1P 20A SRPD	27	28
2P 50A	27	28	1P 20A SRPD	29	30
3P 60A SDP #1	29	30	1P 20A SRPD	31	32
	31	32	Spare	33	34
1P 20A Recept	33	34	Spare	35	36
1P 20A Recept	35	36	Spare	37	38
1P 20A Recept	37	38	Spare	39	40
Spare	39	40	Spare	41	42
Spare	41	42	Spare		

NEUTRAL A B C

For ADDITIONAL INFORMATION Call Toll Free 877-288-1100 Fax Toll Free 804-355-8900 www.ThorSystems.us sales@ThorSystems.us

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