

RATINGS AND SPECIFICATIONS

TEMBREAK 2 MOULDED CASE CIRCUIT BREAKERS

MCCB Electrical Characteristics to IEC 60947-2, EN 60947-2, JIS C 8201-2-1 ANN.1, AS/NZS 3947-2, NEMA AB-1

RATINGS AND SPECIFICATIONS

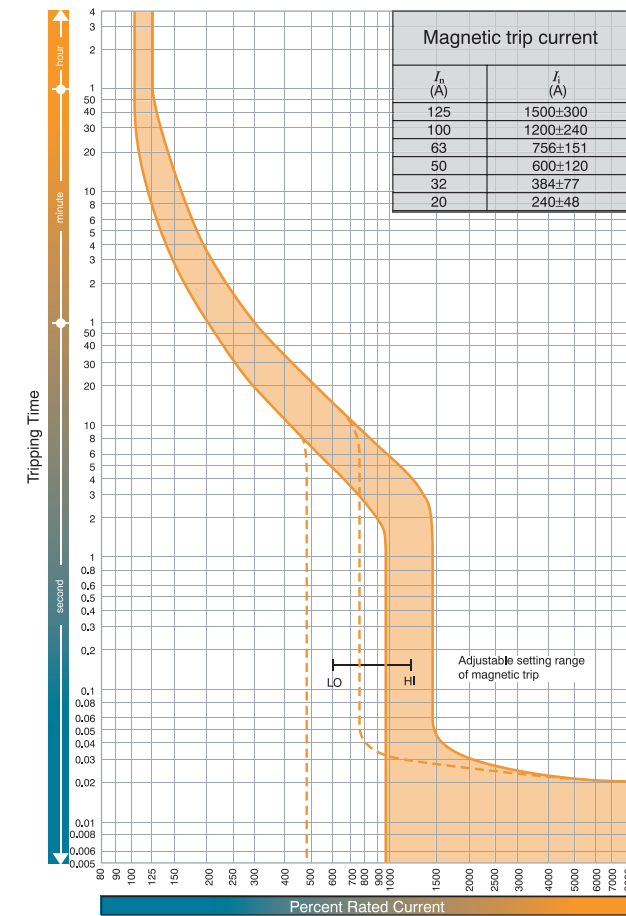
Frame Reference	Quantity	Unit	Condition	TB2 S125		TB2 S250				TB2 S/H/L 250					
Max In (A) of Frame				125		160		250		125		160		250	
Model				S125	S125	S160	S160	S250	S250	H125	L125	H160	L160	S250	S250
Number of Poles				3, 4	3,4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4
Type				NJ	GJ	NJ	GJ	NJ	GJ	NJ	NJ	NJ	NJ	NE	GE
Nominal current ratings															
	I_n	(A)	50°C	20,32,50, 63,100,125	20,32,50, 63,100,125	20,32,50, 63,100, 125,160	50,63,100, 125,160	160 200 250	160 200 250	20,32, 50,63, 100, 125	20,32, 50,63, 100, 125	160	160	40 125 160 250	40 125 160 250
Electrical characteristics															
Rated operational voltage	U_c	(V)	AC 50/60 Hz DC	690 250	690 250	690 250	690 250	690 250	690 250	690 250	690 250	690 250	690 250	690 250	690 250
Rated insulation voltage	U_i	(V)		800	800	800	800	800	800	800	800	800	800	800	800
Rated impulse withstand voltage	U_{imp}	(kV)		8	8	8	8	8	8	8	8	8	8	8	8
Ultimate breaking capacity (IEC, JIS, AS/NZS)	I_{cu}	(kA)	690V AC 525V AC 440V AC 400/415V AC 220/240V AC 250V DC	6 22 25 36 50 25	6 25 50 65 85 40	7.5 (5*) 25 (18*) 25 (18*) 36 (30*) 65 (42*) 40 (30*)	7.5 25 50 65 85 40	7.5 25 25 36 65 40	7.5 25 50 65 85 40	20 45 120 125 150 40	25 65 180 200 200 40	20 45 120 125 150 40	25 65 180 200 200 40	7.5 25 25 36 65 -	7.5 25 50 65 85 -
Service breaking capacity (IEC, JIS, AS/NZS)	I_{cs}	(kA)	690V AC 525V AC 440V AC 400/415V AC 220/240V AC 250V DC	6 22 25 36/30 50 19	6 22 25 36/33 85 40	7.5 (5*) 25 (18*) 25 (18*) 36 (25*) 65 (35*) 40 (25*)	7.5 25 25 36 85 40	7.5 25 25 36 65 40	7.5 25 25 36 85 40	15 45 80 85 150 40	20 65 135 150 150 40	15 45 80 85 150 40	20 65 135 150 150 40	7.5 25 25 36 65 -	7.5 25 25 36 85 -
Rated breaking capacity (NEMA)		(kA)	480V AC 240VAC	22 50	25 85	22 (18*) 65 (42*)	25 85	22 65	25 85	45 150	65 200	45 150	65 200	25 65	25 85
Protection															
Adjustable thermal, adjustable magnetic				■	■	■	■	■	■	■	■	■	■		
Fixed thermal, fixed magnetic															
Microprocessor														■	■
Utilisation category				A	A	A	A	A	A	A	A	A	A	A	A
Installation															
Front connection (FC)				■	■	■	■	■	■	■	■	■	■	■	■
Extension bar (FB)				•	•	•	•	•	•	•	•	•	•	•	•
Cable clamp (FW)				•	•	•	•	•	•	•	•	•	•	•	•
Rear connection (RC)				•	•	•	•	•	•	•	•	•	•	•	•
Plug-in (PM)				•	•	•	•	•	•	•	•	•	•	•••	•••
DIN rail mounting (DA)				•	•	-	-	-	-	-	-	-	-	-	-
Dimensions	height	(mm)	3 pole, (1 pole)	155	155	165	165	165	165	165	165	165	165	165	165
	width	(mm)	4 pole	90	90	105	105	105	105	105	105	105	105	105	105
	depth	(mm)		120	120	140	140	140	140	140	140	140	140	140	140
	weight	(kg)		68	68	68	68	68	68	103	103	103	103	103	103
			3 pole, (1 pole)	1.1	1.1	1.5	1.5	1.5	1.5	2.4	2.4	2.5	2.5	2.3	2.3
			4 pole	1.4	1.4	1.9	1.9	1.9	1.9	3.2	3.2	3.3	3.3	3.1	3.1
Operation															
Direct Opening Action				■	■	■	■	■	■	■	■	■	■	■	■
Toggle operation				■	■	■	■	■	■	■	■	■	■	■	■
Door mounted (HS) / Breaker mounted handle (HB)				•	•	•	•	•	•	•	•	•	•	•	•
Motor operation (MC)				•	•	•	•	•	•	•	•	•	•	•	•
Endurance	Electrical	cycles	415V AC	30,000		20,000		10,000		30,000		20,000		10,000	
	Mechanical	cycles		30,000		30,000		30,000		30,000		30,000		30,000	

PROTECTION CHARACTERISTICS

TEMBREAK 2 ADJUSTABLE THERMAL AND ADJUSTABLE MAGNETIC PROTECTION

Time/Current Characteristic Curves

H125-NJ, L125-NJ, L125-PJ

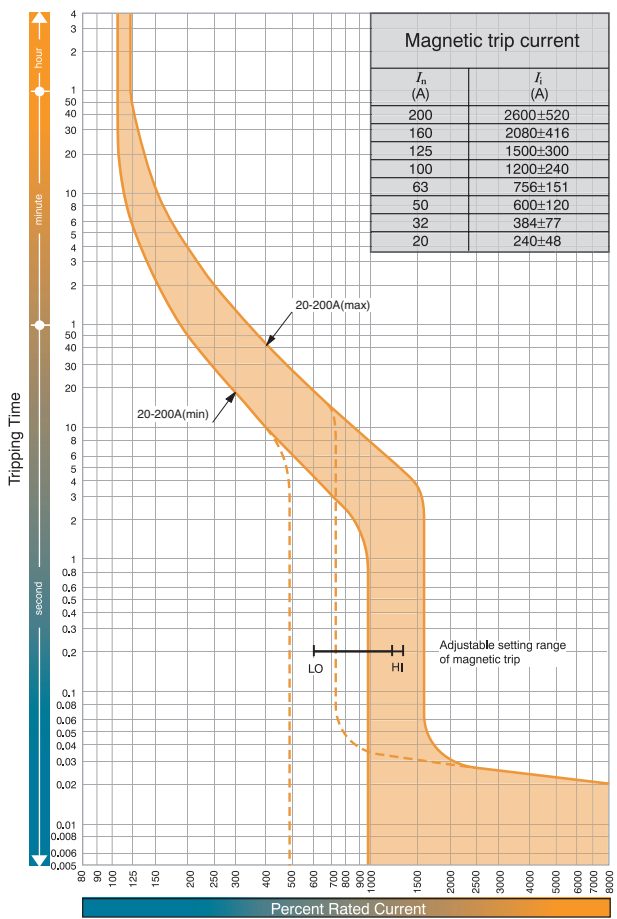


PROTECTION CHARACTERISTICS

TEMBREAK 2 ADJUSTABLE THERMAL AND ADJUSTABLE MAGNETIC PROTECTION

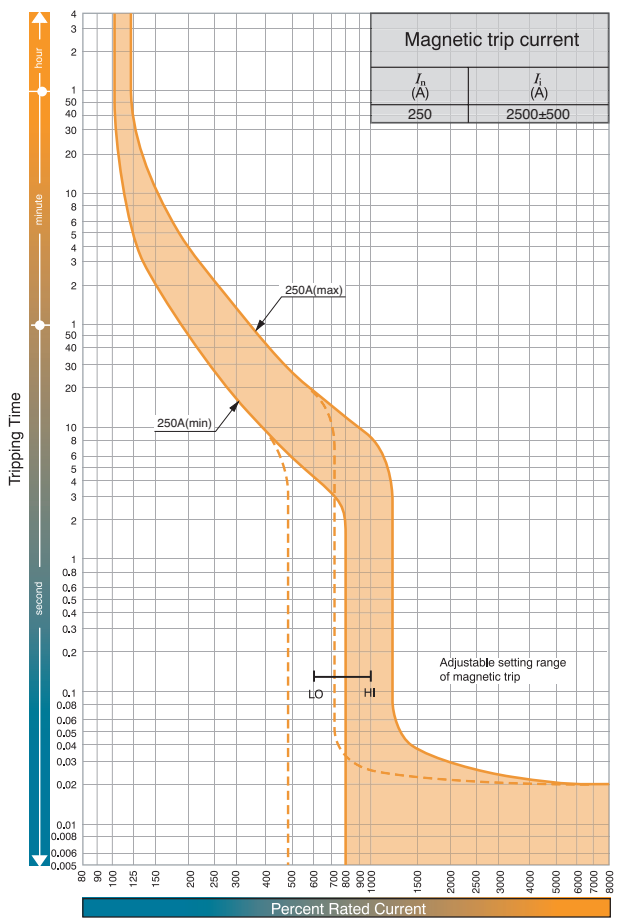
Time/Current Characteristic Curves

S160-NJ, S160-GJ, S250-NJ, S250-GJ, VS250-NJ
(20A to 200A)



Time/Current Characteristic Curves

S250-NJ, S250-GJ, VS250-NJ (250A)

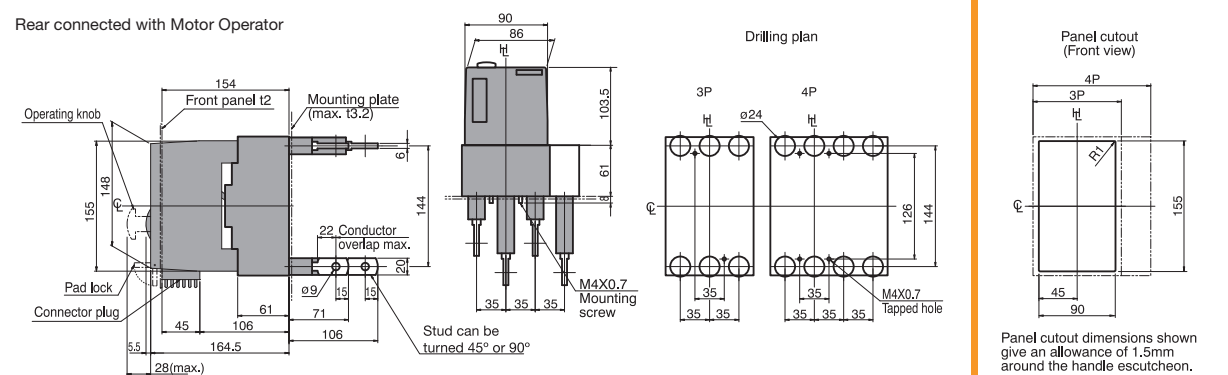
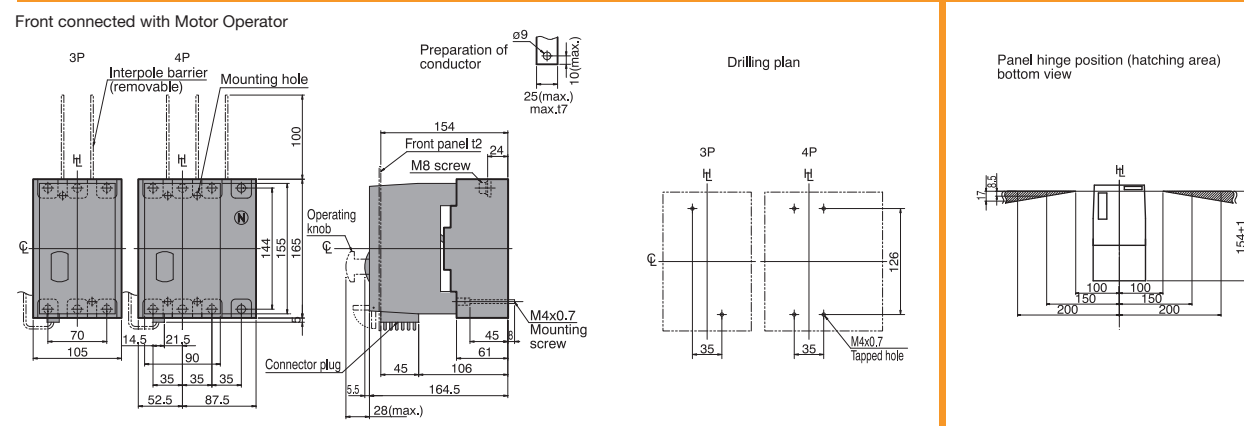
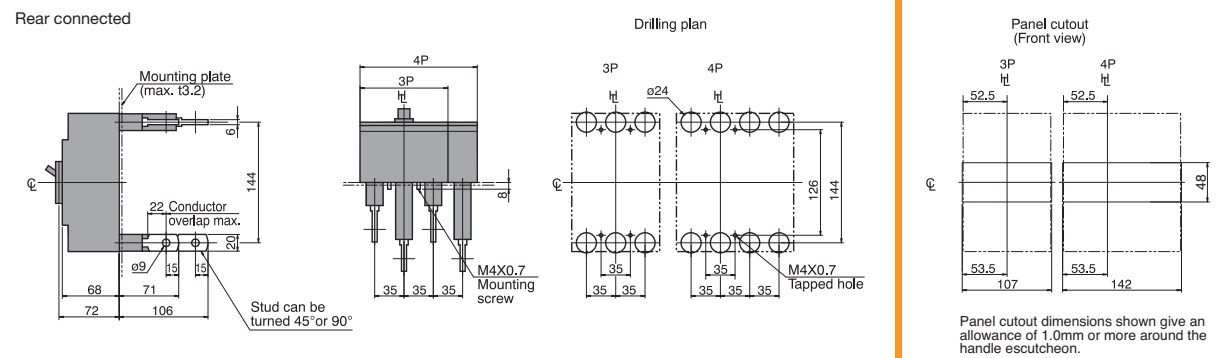
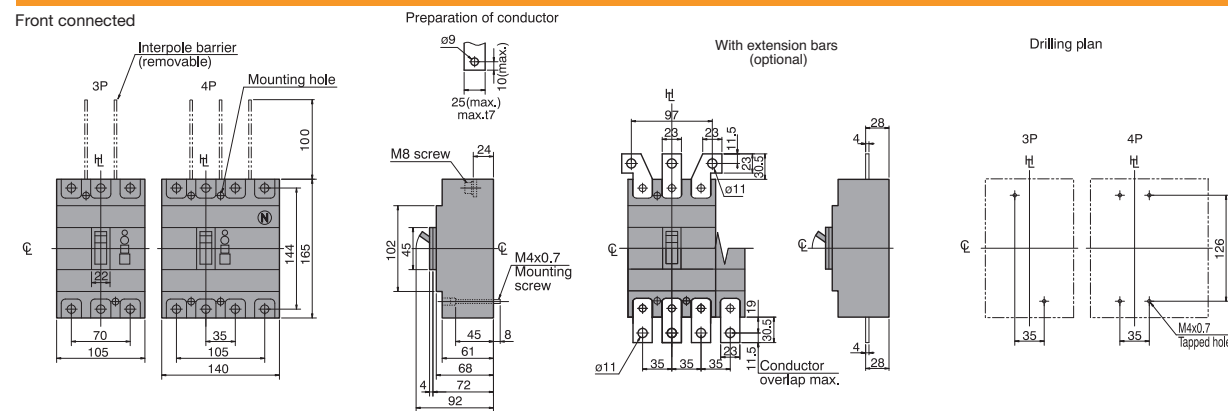


DIMENSIONS

TEMBREAK 2 MOULDED CASE CIRCUIT BREAKERS & SWITCH DISCONNECTORS

S160-NJ, S160-GJ, S250-NJ, S250-GJ, S250-N

ASL: Arrangement Standard Line HL: Handle Frame Centre Line



DIMENSIONS

TEMBREAK 2 MOULDED CASE CIRCUIT BREAKERS & SWITCH DISCONNECTORS

S160-NJ, S160-GJ, S250-NJ, S250-GJ, S250-NN Plug-in Versions

ASL: Arrangement Standard Line HL: Handle Frame Centre Line

