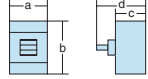


2

Ratings and Specifications

Moulded Case Circuit Breakers

3 High-fault level series

Frame size (A)			H125-NJ		H160-NJ		H250-NJ		H250-NE		P400S		H400-NE					
Type			3	4	3	4	3	4	3	4	3	4	3	4				
Number of poles																		
Rated current, A			20		160		160		$I_n=40$ $I_n=125$ $I_n=160$ $I_n=250$ 47		250 400		$I_n=250$ $I_n=400$	$I_n=250$ $I_n=400$				
Calibrated at			50°C		50°C		50°C 36		—		50°C		—					
Rated insulation voltage [U_i] V AC			800		800		800		800		800		800					
Rated impulse withstand voltage [U_{imp}] kV			8		8		8		8		8		8					
Rated short time withstand current [I_{cw}] kA			—		—		—		—		5.0 (0.4sec.)		5.0 (0.3sec.)					
Utilization Category			A		A		A		A		A		B					
Rated breaking capacity, kA			A		A		A		A		A		B					
IEC 60947-2 AC			690V	20/15	20/15	20/15	20/15	20/15	20/15	12/12	12/12 39	35/35	35/35	35/35				
I_{cu}/I_{cs} (sym)			525V	45/45	45/45	45/45	45/45	45/45	45/45	50/50	50/50	45/45	45/45	45/45				
			480V	45/45	45/45	45/45	45/45	45/45	45/45	65/65	65/65	45/45	45/45	45/45				
			440V	120/80	120/80	120/80	120/80	120/80	120/80	100/100	100/100	120/80	120/80	120/80				
			415V	125/85	125/85	125/85	125/85	125/85	110/110	110/110	125/85	125/85	125/85	125/85				
			240V	150/150	150/150	150/150	150/150	150/150	125/125	125/125	150/150	150/150	150/150	150/150				
DC			250V	40/40	40/40	40/40	40/40	—	—	50/50	—	—	—	—				
External dimensions, mm																		
			a	105	140	105	140	105	140	105	140	140	185	140	185			
			b	165	165	165	165	165	165	165	165	165	165	260	260			
			c	103	103	103	103	103	103	103	103	103	103	140	140			
			d	127	127	127	127	127	127	151	151	151	182	182				
Weight (● marked standard type) kg				2.4	3.2	2.4	3.2	2.4	3.2	2.5	3.3	5.5	7.3	5.7	7.5	7.1	9.4	
Connections and Mountings																		
Front-connected	Terminal screws (FC)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	With extension bars (FB)	○ 5	○ 5	○ 5	○ 5	○ 5	○ 5	○ 5	○ 5	○	○	○	○	○	○	○	○	
	Cable clamp (FW)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Rear-connected	Flat bar studs (RC)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Plug-in (PM)	For switchboards (PMB)	○ 24	○ 24	○ 24	○ 24 33	○ 24 33	○ 24 33	○ 24 33	○ 24 33	○ 23	○ 23	○ 24	○ 24	○ 24	○ 24	○ 24	○ 24	
Draw-out type	(DR)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
DIN rail mount	(DA)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Overcurrent trip mechanism																		
Thermal magnetic	Adjustable thermal ADJ	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Fixed thermal FIX	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Electronic	TPOT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	TPOP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	XOU	—	—	—	—	—	—	—	—	● 21	—	—	—	—	—	—	—	
	XOS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Accessories (optional)																		
Externally mounted	Auxiliary switch	A X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Alarm switch	A L	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Internally mounted	Shunt trips	S H	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Undervoltage trips	U V	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Motor operator	M C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	External operating handle	Breaker-mounted	H B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Door-mounted (variable depth)	H P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Toggle extension	H A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Mechanical interlock 19	Slide type	M S	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Link type	M L	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Wire type	M W	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Toggle holder	H H	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Toggle lock	H L	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Terminal cover	For front-connected	C F	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	For rear-connected and plug-in	C R	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	For cable clamps	C S	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Terminal block for lead	T F	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Door flange	D F	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
CE marking		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Colour of cover		Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	
Trip button (Colour)		Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	
Suitability for isolation		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Reverse connection		Yes 6	Yes 6	Yes 6	Yes 6	Yes 6	Yes 6	Yes 6	Yes 6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Endurance	Electrical	415V	30,000	20,000	10,000	10,000	10,000	10,000	6,000	6,000	6,000	4,500	4,500	4,500	4,500	4,500	4,500	
	Mechanical		30,000	30,000	30,000	30,000	30,000	30,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	

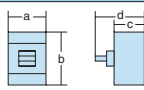
Notes:
 ● : Standard. This configuration used unless otherwise specified. ○ : Optional standard. Specify when ordering. ▲ : Semi-standard. ● : "yes" or "available". — : "no" or "not available".
 5 : For the extension bars, please place the order separately in parts. 6 : Available up to 525V AC
 19 : Mechanical interlocks cannot be applied to draw-out type (DR). 20 : Optional preferential alarm or ground fault trip function available on request.
 21 : Optional preferential trip alarm function available on request. 23 : A safety trip function is provided.
 24 : A safety lock function is provided. 33 : Max. rating 219A at 50°C for Plug-in
 36 : Calibrated at 30°C for Plug-in 250A 39 : For (I_n) rated current settings (A) please refer to Section 7.
 39 : MCCB cannot be used in IT systems at this voltage.
 47 : Max. rating 237.5A at 50°C.

2

Ratings and Specifications

Moulded Case Circuit Breakers

3 High-fault level series

Frame size (A)			P630S		H800-NE							
Type			3	4	3	4	3	4				
Number of poles			3	4	3	4	3	4				
■ Ratings												
Rated current, A			630 ^①		$I_n=630$		$I_n=630$		$I_n=800$ ^④			
					^③		^③					
Calibrated at			30°C		—		—		—			
Rated insulation voltage [U_i] V AC			800		800		800					
Rated impulse withstand voltage [U_{imp}] kV			8		8		8					
Rated short time withstand current [I_{cw}] kA			—		—		10 (0.3sec.)					
Utilization Category			A		A		B					
■ Rated breaking capacity, kA												
IEC 60947-2	AC	690V	12/12		12/12 ^③		25/20 ^③					
$I_{cu}/I_{cs}(sym)$		525V	50/50		50/50		45/34					
		480V	65/65		65/65		45/34					
		440V	100/100		100/100		125/94					
		415V	110/110		110/110		125/94					
		240V	125/125		125/125		150/150					
	DC	250V	50/50		—		—					
■ External dimensions, mm												
			a	140 185	140 185	210 280						
			b	260	260	273						
			c	103	103	140						
			d	151	151	182						
Weight (● marked standard type) kg			5.9	7.8	6.0	8.0	14.8 ^①	18.8 ^②				
■ Connections and Mountings												
Front-connected	Terminal screws (FC)		●		●		—					
	With extension bars (FB)		○		○		●					
	Cable clamp (FW)		○		○		—					
Rear-connected	Flat bar studs (RC)		○		○		○					
	Plug-in (PM) For switchboards (PMB)		—		○ ^{②③}		○ ^④					
Draw-out type (DR)		—		▲ ^③		—						
DIN rail mount (DA)		—		—		—						
■ Overcurrent trip mechanism												
Thermal magnetic	Adjustable thermal (ADJ)		●		—		—					
	Fixed thermal (FIX)		—		—		—					
Electronic	TPOP		—		●		—					
	TPOP		—		●		—					
	XOU		—		—		● ^②					
	XOS		—		—		—					
■ Accessories (optional)												
Internally mounted	Auxiliary switch	A X	●		●		●					
	Alarm switch	A L	●		●		●					
	Shunt trips	S H	●		●		●					
Undervoltage trips	U V		●		●		●					
	Motor operator	M C	●		●		●					
Externally mounted	External operating handle	Breaker-mounted (H B)	●		●		●					
	Door-mounted (variable depth)	H P	●		●		●					
Mechanical interlock ^{①⑨}	Toggle extension	H A	●		●		●					
	Slide type	M S	●		●		●					
	Link type	M L	●		●		●					
	Wire type	M W	●		●		●					
Toggle holder	H H	●		●		●						
Toggle lock	H L	●		●		●						
Terminal cover	For front-connected	C F	●		●		●					
	For rear-connected and plug-in	C R	●		●		●					
	For cable clamps	C S	●		●		—					
Terminal block for lead	T F	●		●		●						
Door flange	D F	●		●		●						
CE marking		Yes		Yes		Yes						
Colour of cover		Grey Blue		Grey Blue		Grey Blue						
Trip button (Colour)		Yes (Red)		Yes (Red)		Yes (Red)						
Suitability for isolation		Yes		Yes		Yes						
Reverse connection		Yes		Yes		Yes						
Endurance	Electrical	415V	4,000		4,000		4,000					
	Mechanical		15,000		15,000		10,000					

Notes:
 ● : Standard. This configuration used unless otherwise specified. ○ : Optional standard. Specify when ordering. ▲ : Semi-standard. ● : "yes" or "available". — : "no" or "not available".
 ① : 13.3kg/630A, 14.8kg/800A ② : 16.8kg/630A, 18.8kg/800A ③ : Mechanical interlocks cannot be applied to draw-out type (DR).
 ④ : Optional preferential alarm or ground fault trip function available on request.
 ⑤ : A safety trip function is provided. ⑥ : A safety lock function is provided. ⑦ : Max. rating 560A at 50°C
 ⑧ : Max. rating 546A at 50°C for Plug-in/Draw-out ⑨ : Max. rating 720A at 50°C
 ⑩ : For (I_n) rated current settings (A) please refer to Section 7.
 ⑪ : MCCB cannot be used in IT systems at this voltage.