

**Low-voltage electrical
distribution system**

Technical Specifications 2025/2026

:hager

**The reliable
partner for
intelligent
solutions.**

MCCB

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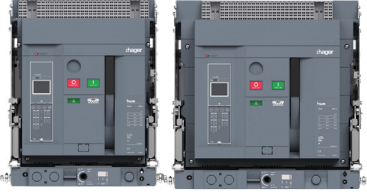
Controls

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Circuit breakers				h3+ P160				h3+ P250			
											
Number of poles				3,4				3,4			
General characteristics											
Rated current at 50 °C		In	(A)	160				250			
Current rated range			(A)	25 - 160 (Thermal Magnetic) 40 - 160 (Electronic)				50 - 250 (Thermal Magnetic) 40 - 250 (Electronic)			
Operational voltage, (AC)		Ue	M	220 - 690				220 - 690			
Frequency			(Hz)	50/60				50/60			
Rated insulation voltage		Ui	M	800				800			
Rated impulse withstand voltage		Uimp	(kV)	8				8			
Suitability for isolation				yes				yes			
Breaking capacity level				HHS	HNS	HMS	HES	HHT	HNT	HMT	HET
Rated ultimate short-circuit breaking capacity, {Icu}											
(AC) 50/60 Hz 220/240 V		Icu	(kA)	35	50	65	85	35	50	65	85
(AC) 50/60 Hz 380/415 V		Icu	(kA)	25	40	50	70	25	40	50	70
(AC) 50/60 Hz 660/690 V		Icu	(kA)	6	6	6	6	6	6	6	6
Rated service short-circuit breaking capacity, {Ics}											
(AC) 50/60 Hz 220/240 V		Ics	(kA)	35	50	65	85	35	50	65	85
(AC) 50/60 Hz 380/415 V		Ics	(kA)	25	40	50	50	25	40	50	50
(AC) 50/60 Hz 660/690 V		Ics	(kA)	6	6	6	6	6	6	6	6
Mechanical endurance in number of operations (IEC 60947-2)				40000				40000			
Electrical endurance in number of cycles at 440 V~ (IEC 60947-2)				10000				10000			
Operating temperature				-25 °C to +70 °C				-25 °C to +70 °C			
Storage temperature				-35 °C to +70 °C				-35 °C to +70 °C			
Tropicalisation				95 % HR at 55 °C				95 % HR at 55 °C			
Altitude (m)				≤2000				≤2000			
Terminations											
Pitch (mm)				30				35			
Maximum terminal Torque (nm)				6				12			
Terminal width (mm)				21				25			
Dimensions											
Height (mm)				130				165			
Width (mm)	3P			90				105			
	4P			120				140			
Depth (mm)				97				97			
Weight (kg)	3P			1.1				1.5			
	4P			1.4				1.9			
Protection				YES				YES			
MAG (ICB): li adjustable				YES				YES			
TM: Ir adjustable, li adjustable, neutral protection adjustable on 4P				YES				YES			
LSnl: Ir adjustable, tr fixed, lsd adjustable, tsd fixed, li fixed, neutral protection adjustable on 4P				YES				YES			
LSI: Ir & tr adjustable, lsd & tsd adjustable, li adjustable, neutral protection adjustable on 4P				YES				YES			
LSIG: Ir & tr adjustable, lsd & tsd adjustable, li adjustable, lg & tg fixed, neutral protection adjustable on 4P				NO				YES			
Energy: Ir & tr adjustable, lsd & tsd adjustable, li adjustable, lg & tg adjustable, neutral protection adjustable on 4P				YES				YES			
Earth leakage protection				YES				YES			
Measurement and advanced functions											
Trip unit version				LSnl	LSI	Energy		LSnl	LSI	LSIG	Energy
Embedded display of measurements and trip causes				NO	NO	YES		NO	NO	NO	YES
PTA output contact				NO	YES	YES		NO	YES	YES	YES
OAC output contact				NO	NO	YES		NO	NO	NO	YES
MIP connector for Configuration tool				YES	YES	YES		YES	YES	YES	YES
Options											
Panel display				NO	NO	YES		NO	NO	NO	YES
Communication module				NO	NO	YES		NO	NO	NO	YES
MCCB status, operation and trip counters via AX/AL				NO	NO	YES		NO	NO	NO	YES
Configuration tool				YES*	YES*	YES		YES*	YES*	YES*	YES

h3+ P630 				h3 x630 				h3 h1000 		h3 h1600 	
3,4				3,4				3,4		3,4	
630				630				1000		1000	
250 - 630 (Electronic)				250 - 630 (TM)				800 - 1000 (Electronic)		1250 - 1600 (Electronic)	
220 - 690				220 - 415				220 - 690		220 - 690	
50/60				50/60				50/60		50/60	
800				800				800		800	
8				8				8		8	
yes				yes				yes		yes	
HNW	HMW	HEW	HPW	HHJ	HNJ	HMJ	HEJ	HNE	HEE	HNF	HEF
70	85	100	125	35	70	85	100	85 (800A) 75 (1000A)	100	100	100
40	50	70	110	25	40	50	70	50	70	50	70
7	12	12	12	-	-	-	-	20	20	20	45
70	85	100	125	35	70	85	100	85 (800A) 75 (1000A)	100	50	50
40	50	70	110	25	40	50	70	50	50	45	50
7	12	12	12	-	-	-	-	20	20	25	34
30000				15000				15000		15000	
6000 ≤ 400A 4000 > 400A				6000 ≤ 400A 4000 > 400A				4500		4500	
-25 °C to +70 °C				-25 °C to +70 °C				-25 °C to +70 °C		-25 °C to +70 °C	
-35 °C to +70 °C				-35 °C to +70 °C				-35 °C to +70 °C		-35 °C to +70 °C	
95 % HR at 55 °C				95 % HR at 55 °C				95 % HR at 55 °C		95 % HR at 55 °C	
≤2000				≤2000				≤2000		≤2000	
45				45				70		70	
18				18				65		65	
32				32				40		44.5	
260				260				433		570	
140				140				210		210	
185				185				280		280	
150				150				99.5		140	
5.8				5.8				11.0		27.0	
7.6				7.6				14.8		30.0	
YES				YES				YES		YES	
YES				YES				NO		NO	
YES				YES				NO		NO	
YES				YES				NO		NO	
YES				NO				YES		YES	
YES				NO				NO		NO	
YES				NO				NO		NO	
YES				NO				NO		NO	
				* limited to certain functions.							
LSI	LSIG	Energy									
NO	NO	YES									
YES	YES	YES									
NO	NO	YES									
YES	YES	YES									
NO	NO	YES									
NO	NO	YES									
NO	NO	YES									
YES*	YES*	YES									

Circuit breakers			h3 x160				h3 x250			h400e	h800e
											
			HCA	HDA	HHA	HNA	HCB	HHB	HNB		
Number of poles			3 & 4	1,2,3,4	1,2,3,4	3 & 4	3 & 4			3 & 4	3 & 4
General characteristics											
Rated current	In	(A)	160				250			300-320-350-400	450-500-600-630-800
Current rated range		(A)	125-160	16-125 (1P), 16 -120 (2,3,4P)			250	100-250		300-400	450-800
Operational voltage, (AC)	Ue	M	220-440				220-440			415	415
Frequency		(Hz)	50/60				50/60			50	50
Rated insulation voltage	Ui	M	690				800			690	690
Rated impulse withstand voltage	Uimp	(kV)	8				8			8	8
Rated ultimate short-circuit breaking capacity, {Icu}											
(AC) 50/60 Hz 220/230 V	Icu	(kA)	-	25	35	85	-	35	85	-	-
(AC) 50/60 Hz 380/415 V	Icu	(kA)	-	18	25	40	-	25	40	50	50
(AC) 50/60 Hz 480/500/525 V	Icu	(kA)	-	6	7.5	12.5	-	-	10	-	-
(AC) 50/60 Hz 660/690 V	Icu	(kA)	-	-	-	6	-	-	4	-	-
(DC) 250 V - 2 poles in series	Icu	(kA)	-	12.5	20	25	-	25	25	-	-
Rated service short-circuit breaking capacity, {Ics}											
(AC) 50/60 Hz 220/230 V	Ics	(kA)	-	25	25	40	-	25	40	-	-
(AC) 50/60 Hz 380/415 V	Ics	(kA)	-	18	25	20	-	20	20	36	36
(AC) 50/60 Hz 480/500/525 V	Ics	(kA)	-	3	4	7.5	-	-	7.5	-	-
(AC) 50/60 Hz 660/690 V	Ics	(kA)	-	-	-	3	-	-	2	-	-
(DC) 250 V - 2 poles in series	Ics	(kA)	-	7	10	13	-	13	13	-	-
Rated short-circuit breaking capacity	Icm	(kA)	2.8	-	-	-	6	-	-	-	-
Rated short-time withstand current for 1s	Icw	(kA)	2	-	-	-	3	-	-	-	-
Category of use (EN 60947-2)			-	A			-	A		A	A
Derating	40°C		-	100%				100%		100%	100%
	50°C		-	100%				100%		92%	94%
	55°C		-	95%				94%		88%	86%
	60°C		-	93%				91%		83%	82%
Suitability for isolation			OK				OK			OK	OK
Electric endurance in number of cycles			10000				10000			2000	1500
Mechanical endurance in number of operations			20000				20000			4000	4000
Operating temperature			-25°C to +70°C				-25°C to +70°C			-5°C to +60°C	-5°C to +60°C
Storage temperature			-35°C to +70°C				-35°C to +70°C			-25°C to +70°C	-25°C to +70°C
Reference standard			IEC60947-3	IEC60947-2			IEC60947-3	IEC60947-2		IEC60947-2	IEC60947-2
Releases: switch			OK	-			OK	-		-	-
Releases: TM			-	OK			-	OK		OK	OK
T fixed, M fixed			-	OK			-	OK		OK	OK
T adjustable, M fixed			-	OK			-	-		-	-
T adjustable, M adjustable			-	-			-	OK		-	-
Thermal adjustment value			-	0,63 to 1 x In			-	0,63 to 1 x In		-	-
Dimensions											
Height (mm)			130				165			257	275
Width (mm)	1P		-	25	-		-			-	-
	2P		-	50	-		-			-	-
	3P		75				105			140	210
	4P		100				140			184	280
Depth (mm)			68				68			155	155
Weight (kg)	1P		-	0.29	-		-			-	-
	2P		-	0.48	-		-			-	-
	3P		0.715				1.3			4.3	6.6
	4P		0.95				1.6			5.2	8.9
Termination											
Standard terminal type			lugs				lugs			lugs	lugs
Maximum terminal capacity			95mm²				185mm² (cage)				
Terminal width			17.2				25			28	40
Terminal shields			OK				OK			OK	OK

Frame 		HWS2 - M	HWS2 - E	HWS4 - E	HWS4 - S
Version		Fix, Drawout			
Number of Poles		3P, 4P (Neutral Left as standard)			
Standard conformance		IEC60947-2 (ACB), IEC60947-3 (Switch) / GB 14048.2			
Certification		CB DEKRA			
Rated operating voltage	Ue (V)	690 V AC			
Rated insulation voltage	Ui (V)	1000 V AC			
Rated impulse withstand voltage	Uimp (kV)	12			
Pollution Degree (IEC60664-1)		4			
Frequency		50 / 60 Hz			
Utilisation Category		B for (ACB), AC23A (for switch)			
Frame Rated Current	InMax (A)	2000A		4000A	
Rated current	In (A) at 50°C	630 / 800 / 1000 / 1250 / 1600 / 2000		2000 / 2500 / 3200	2000 / 2500 / 3200 / 4000
Rated ultimate short-circuit breaking capacity	Icu @440V (kA)	50	66	66	85
	Icu @690V (kA)	42	55	55	75
Rated service short-circuit breaking capacity	Ics @440V (kA)	50	66	66	85
	Ics @690V (kA)	42	55	55	75
Rated short-time withstand capacity	Icw 1s @440V (kA)	50	66	66	85
	Icw 1s @690V (kA)	42	55	55	75
Rated short-time withstand capacity 3s	Icw 3s @440V (kA)	36	50	55	66
Rated making capacity	Icm @440V (kA)	105	145	145	187
	Icm @690V (kA)	88	121	121	165
Breat Time (ms)		< 25 ms			
Closing Time (ms)		< 60 ms			
Mechanical Endurance (w/o maintenance)		12000		10000	
Electrical Endurance (w/o maintenance)	@440V	8000		8000	
	@690V	4000		4000	
Dimension: W x H x D (Width x Height x Depth) (mm)	3P Drawout	347x450x406.5		440x450x406.5	
	4P Drawout	442x450x406.5		556x450x406.5	
	3P Fix	368x415.5x308		461x414.5x308	
	4P Fix	463x415.5x308		587x415.5x308	

Switch version as per IEC60947-3			
Rated current	In (A)	630 / 800 / 1000 / 1250 / 1600/2000	2500 / 3200 / 4000
Rated short-time withstand capacity	Icw 1s @440V (kA)	66	85
	Icw 1s @690V (kA)	55	75
Rated short-time withstand capacity 3s	Icw 3s @440V (kA)	50	66
Rated making capacity	Icm @440V (kA)	145	187
	Icm @690V (kA)	121	165
Dimension and Endurance same as ACB version			

hw+ circuit breakers		HW1 size			
Reference			HW1N... 42 kA	HW1M... 55 kA	HW1E... 66 kA
Rated current at 50°C (A)		HW1xx04... Compatible rating plug	400 400	400 400	400 400
		HW1xx06... Compatible rating plug	630 400 to 630	630 400 to 630	630 400 to 630
		HW1xx08... Compatible rating plug	800 400 to 800	800 400 to 800	800 400 to 800
		HW1xx10... Compatible rating plug	1000 400 to 1000	1000 400 to 1000	1000 400 to 1000
		HW1xx12... Compatible rating plug	1250 400 to 1250	1250 400 to 1250	1250 400 to 1250
		HW1xx16... Compatible rating plug	1600 400 to 1600	1600 400 to 1600	1600 400 to 1600
Selectivity category according to IEC 60947-2		-	B	B	B
Pollution degree according to IEC 60947-1		-	3	3	3
Rated ultimate short-circuit breaking capacity (kA) Icu		380-415 V CA	42	55	66
		440 V AC	42	55	66
		500-525 V CA	42	42	42
		690 V AC	42	42	42
Rated operational short-circuit breaking capacity (% Icu) Ics		-	100	100	100 ⁽¹⁾
Short-time withstand current rating capacity (kA) Icw		1s - 400 V CA	42	55	55
		3s - 400 V CA	24	24	30
Rated breaking capacity (kA peak) Icm		380-415 V CA	88	121	145
		440 V AC	88	121	145
		500-525 V CA	88	88	88
		690 V AC	88	88	88
Break time between tripping order and arc extinction (ms)		-	< 25	< 25	< 25
Closing time (ms)		-	< 50	< 50	< 50
Mechanical durability (cycles x 1000)		With maintenance	12.5	12.5	12.5
Electrical endurance at In and 440 V (cycles x 1000)		-	8	8	8
Electrical endurance at In and 690 V (cycles x 1000)		-	6	6	6

(1) Ics: 55 kA for voltages 380 to 440 V

(2) Ics: 85 kA for voltages 380 to 440 V

(3) Ics: 100 kA for voltages 380 to 440 V

hw+ circuit breakers common data

Rated operational voltage	Ue	(V AC - 50/60 Hz)	690
Rated insulation voltage	Ui	(V)	1,000
Rated impulse withstand voltage	Uimp	(kV)	12
Number of poles			3 / 4
Versions			Fixed / drawout
Standards compliance			IEC 60947-2

HW2 size				HW4 size			
	HW2M... 55 kA	HW2E... 66 kA	HW2S... 100 kA		HW4E... 66 kA	HW4S... 85 kA	HW2P... 120 kA
HW2xx06... Compatible rating plug	630 630	630 630	630 630	HW4xx10... Compatible rating plug	1000 1000	1000 1000	1000 1000
HW2xx08... Compatible rating plug	800 630 to 800	800 630 to 800	800 630 to 800	HW4xx12... Compatible rating plug	1250 1000 to 1250	1250 1000 to 1250	1250 1000 to 1250
HW2xx10... Compatible rating plug	1000 630 to 1000	1000 630 to 1000	1000 630 to 1000	HW4xx16... Compatible rating plug	1600 1000 to 1600	1600 1000 to 1600	1600 1000 to 1600
HW2xx12... Compatible rating plug	1200 630 to 1200	1200 630 to 1200	1200 630 to 1200	HW4xx20... Compatible rating plug	2000 1000 to 2000	2000 1000 to 2000	2000 1000 to 2000
HW2xx16... Compatible rating plug	1600 630 to 1600	1600 630 to 1600	1600 630 to 1600	HW4xx25... Compatible rating plug	2500 1000 to 2500	2500 1000 to 2500	2500 1000 to 2500
HW2xx20... Compatible rating plug	2000 630 to 2000	2000 630 to 2000	2000 630 to 2000	HW4xx32... Compatible rating plug	3200 1000 to 3200	3200 1000 to 3200	3200 1000 to 3200
HW2xx25... Compatible rating plug	2500 630 to 2500	2500 630 to 2500	2500 630 to 2500	HW4xx40... Compatible rating plug	4000 1000 to 4000	4000 1000 to 4000	4000 1000 to 4000
-	B	B	B	-	B	B	B
-	3	3	3	-	3	3	3
-	55	66	100	-	66	85	120
-	55	66	100	-	66	85	120
-	42	55	66	-	66	75	85
-	42	55	66	-	66	75	85
-	100	100	100 ⁽²⁾	-	100	100	100 ⁽³⁾
-	55	66	85	-	66	85	85
-	36	50	66	-	66	66	75
-	121	145	220	-	145	187	264
-	121	145	220	-	145	187	264
-	88	121	145	-	145	165	187
-	88	121	145	-	145	165	187
-	< 25	< 25	< 25	-	< 25	< 25	< 25
-	< 50	< 50	< 50	-	< 50	< 50	< 50
-	12.5	12.5	12.5	-	10	10	10
-	8	8	8	-	8	8	8
-	8	8	8	-	8	8	8

hw+ circuit breakers		HW6 size	
Reference			HW6L... 150 kA
Rated current at 50°C	(A)	HW6xx 63 ... Compatible rating plug	6300 3200 to 6300
Selectivity category according to IEC 60947-2		-	B
Pollution degree according to IEC 60947-1		-	3
Rated ultimate short-circuit breaking capacity	(kA) Icu	380-415 V CA	150
		440 V AC	150
		500-525 V CA	100
		690 V AC	100
Rated operational short-circuit breaking capacity	(% Icu) Ics	-	100 (4)
Short-time withstand current rating capacity	(kA) Icw	1s - 400 V CA	100
		3s - 400 V CA	75
Rated breaking capacity	(kA peak) Icm	380-415 V CA	330
		440 V AC	330
		500-525 V CA	220
		690 V AC	220
Break time between tripping order and arc extinction	(ms)	-	< 25
Closing time	(ms)	-	< 65
Mechanical durability	(cycles x 1000)	With maintenance	8.5
Electrical endurance at In and 440 V	(cycles x 1000)	-	6
Electrical endurance at In and 690 V	(cycles x 1000)	-	6

(1) Ics: 55 kA for voltages 380 to 440 V

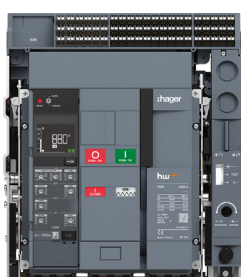
(2) Ics: 85 kA for voltages 380 to 440 V

(3) Ics: 100 kA for voltages 380 to 440 V

(4) Ics: 150 kA for voltages 380 to 440 V

hw+ circuit breakers common data

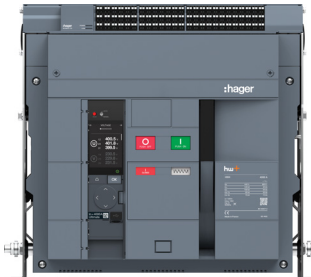
Rated operational voltage	Ue	(V AC - 50/60 Hz)	690
Rated insulation voltage	Ui	(V)	1,000
Rated impulse withstand voltage	Uimp	(kV)	12
Number of poles			3 / 4
Versions			Fixed / drawout
Standards compliance			IEC 60947-2



HW1



HW2



HW4



HW6

Features of MCB, RCCB/ELCB and RCBO

- ✓ Positive Contact Indication : Mechanical indicator, appearing on the front face of all hager MCBs (except MY and MT/MU...A), RCBOs and RCCBs, linked to the contacts, shows the positive opening of all poles.
Red = Contacts closed. Green = Contacts opened.
- ✓ Earth Fault Indicator : Mechanical indicator, appearing on the front face of the RCCB/RCBO, to differentiate between tripped (yellow) and off position.
- ✓ Anti-Nuisance Tripping : All RCCBs and RCBOs are protected against nuisance tripping due to transient voltages (lightning, line disturbance) and transient current (from high capacitive circuits).
- ✓ Auxiliaries & Accessories : All MCBs, RCCBs & RCBOs can be fitted with auxiliary, signal/alarm contact, shunt trip, under voltage release and pad-locking kit.

MCB

	Model	No. of Pole	Current Rating	Reference Calibration Temperature	Tripping Curve	Rated Voltage	Breaking Capacity	Standards	Mechanical Endurance	Connection Capacity
 MY106E	MY...E	1-2-3P	1-63A	30°C	Type C	230/ 400V~	4.5kA 6kA	IEC 60898 IEC 60947-2	20,000 operations	25mm ² rigid cable 16mm ² flexible cable
 MU216A	MT...A MU...A	1-2-3P	6-63A 2-63A	30°C	Type B Type C	400V~	6kA 10kA	IEC 60898 IEC 60947-2	20,000 operations	25mm ² rigid cable 16mm ² flexible cable
 MR240	MR... MS...	1-2-3P	2-63A	40°C	Type B Type C	230/ 400V~	6kA 10kA	IEC 60898 IEC 60947-2	20,000 operations	25mm ² rigid cable 16mm ² flexible cable
 NC210A	NB...A NC...A NDN...A	1-2-3-4P	6-63A 0.5-63A 0.5-63A	30°C	Type B Type C Type D	400V~	10kA 15kA	IEC 60898 IEC 60947-2	20,000 operations	25mm ² rigid cable 16mm ² flexible cable
 HMC380	HLE...S HLF...S HMB... HMC... HMD...	1-2-3-4P	80-125A	30°C	Type B Type C Type B Type C Type D	240/ 415V~	10kA 10kA 15kA 15kA 15kA	IEC 60898	20,000 operations	70mm rigid cable 50mm ² flexible cable
 NRN320	NRN...	1-2-3-4P	0.5-63A	40°C	Type C	230/ 400V~	25kA (≤25A) 20kA (32-40A) 15kA (50-63A)	IEC 60947-2	20,000 operations	25mm ² rigid cable 16mm ² flexible cable

RCCB

	Model	Type	No. of Pole	Nominal voltage	Rated Current	Sensitivity	Standards
 CD263B	C...B	AC	2P/4P	230/400V	16,25,40,63,80,100	10mA...500mA	SS97, IEC61008-1
	CN...B	S			40,63,80,100	100mA	IEC61008-1
	CP...B	S			40,63,80,100	300mA	IEC61008-1
	CH...J	A(HI)			25,40,63	30mA	IEC61008-1
	CQ...J	A(HI)			40,63	300mA	IEC61008-1
	CD...J	A			16,25,40,63	30mA	SS97, IEC61008-1
	CE...J	A			16,25,40,63,80,100	100mA	IEC61008-1
	CF...J	A			16,25,40,63,80,100	300mA	IEC61008-1
	C.B...E	B			16,25,40,63	30,100 & 300mA	IEC61008-1

Combined MCB/RCD (RCBO)

	Model	Type	No. of Pole	Nominal Voltage	Rated Current	Sensitivity	Breaking Capacity	Standards
 AD970B  AEX470C	A.9..B	AC	2P	230	6A-40A	30mA,100mA,300mA	6kA/10kA	IEC61009-1 IEC60947-2
	A.X4..C	A	4P	400		30mA,100mA,300mA	10kA	

Earth Leakage Relay (ELR)

	Model	Sensitivity	Time-Delay	Output Contact	Standards	Associated Torroid	Diameter	Model
 HR522	HR522	30-100-300-500mA 1-3-10A	0-0.1-0.2-0.25- 0.3-0.4-0.5sec	6A/250V AC 1 volt free changeover contact	IEC 60947-2 Annex B IEC60755 IEC 61543	 HR741	Ø 30mm	HR700
	HR523	0.5-1-3-5A 10-20-30A	0-0.1-0.2-0.25- 0.3-0.4-0.5sec		IEC 61008-1 IEC 61000-6		Ø 35mm Ø 70mm Ø 105mm Ø 140mm Ø 210mm	HR741 HR742 HR743 HR744 HR745

Switch Disconnecter / Enclosed Load Break Switches 20-1250A

	Model	No. of Pole	Current Rating	Duty Cycle	IP	Standards
 JAB302S-IP42	JA...S-IP42	TP & N and	20 - 1250A (IP42)	AC23	IP42	IEC 60529
	JA...S-IP65	TP & Switched Neutral	20 - 800A (IP65)		IP65	IEC 60947-3

IP66 Isolating Switch

	Model	No. of Pole	Current Rating	Duty Cycle	IP	Standards
 JG220U	JG...U JG...IN	2/3/4P	20, 32, 40A 63A	AC22A AC23A	IP66	IEC 60947-3
 JG363S JG380S JG325S	JG...S	3P	63-125A	AC21A AC22A	IP65	IEC 60947-3

Surge Protection Devices (SPD)

	Model	No. of Pole	Max Continuous Uc	Voltage Protection Level	I _{max}	I _n	Discharge Current Wave	Replacement Cartridge	Aux Contact	Type of SPD	Standards
 SPL220	SPL...12A	2P/4P	350Vac	1.5kV	50kA	12.5kA	8/20us; 10/350us	NO	NO	1+2	IEC61643-1
	SPL...65	2P/4P	350Vac	1.9kV	65kA	35kA	8/20us	YES	YES	2	IEC61643-1
	SPL...40	2P/4P	350Vac	1.5kV	40kA	20kA	8/20us	YES	YES	2	IEC61643-1
	SPL...20	2P/4P	350Vac	1.3kV	25kA	10kA	8/20us	YES	YES	2	IEC61643-1
	SPV340	3P	1000Vdc	3.7kV	40kA	15kA	8/20us	YES	NO	PV Class 2	IEC60364-7

Isolating Switch

	Model	Current Rating	No. of Pole	Duty Cycle	Standards	Positive Contact Indicator	Connection Capacity
 SBN390	SBN...	16, 25, 32A 40, 63, 80A 100A, 125A	1-2-3-4P	AC 22A	IEC 60947-3	Yes	10mm ² rigid cable, 6mm ² flexible cable 25mm ² rigid cable, 16mm ² flexible cable 50mm ² rigid cable, 35mm ² flexible cable

Changeover Modular Switch & ATS

	Model	No. of Pole	Type	Current Rating	Nominal Voltage
 SFT440	SFH...	1-2P	2-Way	25A, 32A	230V~
	SFM...	1NO+1NC	2-Way	25A, 32A	230V~
	SFT...	1-2-3-4P	Centre-Off	25A, 32A, 40A	230V/400V~
	SF...63	2-4P	Centre-Off	63A	230V/400V~
 HIC406R	HIC...R	4P	ATS I - O - II	40 - 630A	380V/400V~

Motion Detector

	Model	Mounting	IP	Detection Angle	Time Delay Settings	Brightness Threshold Settings	Output Contact
 EE830  EE883	EE830	Wall	55	200°	5s-15 min	5-1000 lux	μ10A AC1 230V~
	EE804A / 805A	Ceiling (flush or surface)	21	360°	5s-30 min	5-1000 lux	μ10A AC1 230V~
	EE883	Ceiling (hyper-frequency)	54	360°	5s-50 min	2-2000 lux	μ10A AC1 230V~
	EE815	Ceiling (presence)	41	360°	1-60 min	5-1000 lux	μ16A AC1 230V~

Enclosure / Distribution Board

	Model	Material	Mounting	No. of Rows	No. of Ways	IP	Standards	Options
 Golf	Golf	Insulated	Surface/Flush	1-2-3- 4 Rows	4-8-12-24-36-48 ways 18-36-54-72-22 ways	40	IEC 60439-3 BSEN60439-3	• Key-lock • Plain or Transparent door
	Icos / Cosmos	Insulated	Surface/Flush	1 Row	4/5-8-12/14-16/20 ways	40		
	Vector	Insulated	Surface	1-2-3- 4 Rows	3-6-10-12-24-36-48 ways	55		
	IU	Metal	Surface	1-2-3-4-5-6 Rows	13-18-26-36-39-52-54-72-90-108 ways	40		

IP65 Metal & Glass-Reinforced Polyester (GRP) Enclosure

	Model	Material	Size (HxWxD) mm	IP	Standards	Options
 FL216B	Orion (FL...A)	Steel	300x250x160 to 1250x800x300	65	IEC 60529	• Key-lock • Wall fixing brackets • Plain or perforated mounting plate • Equipment kits for modular devices
	Orion Plus (FL...B)	GRP	350x250x160 to 2050x1100x300	65/66		
	Orion Lite (FLA...RC)	Steel	350x250x150 to 1000x800x300	65	BSEN 6143913	NA

Comb-Busbars

	Model	Type	Length	Cross-Section of Busbars	Max. Current Per Phase	No. of Poles	Impulse Withstand Voltage	Standards
					End feed			
 KB280B  KD380B	KB...B	Prong	56/57 modules	16/20mm²	80/90A	1-2-3-4P	4kV	DIN VDE0660-504
	KD...B	Fork	56/57 modules	16/20mm²	80/90A	1-2-3-4P	4kV	DIN VDE0660-504

Time-Switch

	Model	Type	Operating Cycle	Minimum Switching	Supply Failure Reserve	Manual Override	No. of Channels	Dimensions (HxWxD in mm)
 EHN111 EGN103	EHN010	Analogue	24hrs	15min	-	auto/on	1	90x17.5x60
	EHN011	Analogue	24hrs	15min	200hrs	auto/on	1	90x17.5x60
	EHN110	Analogue	24hrs	15min	-	auto/on/off	1	90x54x60
	EHN111	Analogue	24hrs	15min	200hrs	auto/on/off	1	90x54x60
	EHN171	Analogue	7days	2hrs	200hrs	auto/on/off	1	90x54x60
	EHN711	Analogue	24hrs	20min	200hrs	auto/on/off	1	72x72x50
	EGN103	Digital	7days	1min	5years	auto/on/off	1	85x35.8x61.6

Contactors

	Model	Type	Rated	Coil	Mechanical	Options
 ESC463	ESC225	2NO	25A	230V~ 50HZ	1,000,000 operations	Other control coil voltages are available: 110/127V~, 24V~, 8/12V~ 50Hz Other types are available: 1NO, 1NO+1NC, 4NC, 2NO+2NC Humfree contactors Auxiliary contact
	ESC226	2NC	25A			
	ESC240	2NO	40A			
	ESC263	2NO	63A			
	ESC325	3NO	25A			
	ESC340	3NO	40A			
	ESC363	3NO	63A			
	ESC466	3NO+1NC	63A			
	ESC425	4NO	25A			
	ESC440	4NO	40A			
	ESC463	4NO	63A			

	Model	Type	Rated Current AC3	Coil	Mechanical Endurance	Options
 EW009_C	EW...C	3NO	7-300A	220V~ 50/60Hz	10,000,000 operations	• Thermal overload relays • Auxilliary Contacts • Mechanical Interlock • Surge Suppressor
			3-160kW			

Indicating Lights

	Model	Colour	Type of Lamp	Connection Capacity	Options
 SVN...	SVN121	Green	LED 230V~	10mm ² rigid cable 6mm ² flexible cable	Double, Triple LED lights and 12-48Vac/dc LED light also available
	SVN122	Red			
	SVN123	Amber			
	SVN124	Blue			
	SVN125	Clear			

Fuse Carrier

	Model	Max. Current Rating	No. of Pole	For Cylindrical Cartridge Fuse	Standards	Connection Capacity
 LSN501	LSN5...	32A	1P-1P+N-3P-3P+N	10.3 x 38mm	IEC 60269 IEC 60947-3	16mm ² rigid cable 10mm ² flexible cable
	LR6...	50A	1P-2P-3P-3P+N	14 x 51mm	IEC 60947-3	35mm ² rigid cable 25mm ² flexible cable
	LR7...	125A	1P-2P-3P-3P+N	22 x 58mm	IEC 60947-3	50mm ² rigid cable 35mm ² flexible cable



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