

LV & MV CIRCUIT BREAKERS



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MV		LV					
VC	VCB	MMS	TOR	MC	ACB	MCCB	MCB

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کلید اتوماتیک کامپکت سری HGM، سری HGE، سری HGP

HGM



ویژگی اصلی: دسترسی وسیع جهت انتحاب مشخصه های جریان، قدرت قطع و ...

مکانیزم عملکرد: مرارتی - مغناطیسی (قابل تنظیم مرارتی ، غیر قابل تنظیم)

استانداردها: IEC60947-2/ KS C 8321

مفاصلت ها: اضافه بار، اتصال کوتاه

تعداد پل : ۳، ۴

ولتاژ عملکرد: DC 250V / (220-690 VAC)

جریان نامی: ۱۶ تا ۸۰۰ آمپر

قدرت قطع: ۱۶ تا ۱۰۰ کیلو آمپر

$I_{cs}=100\% I_{cu}$

ولتاژ قابل تحمل ضربه: ۸ کیلو ولت

ولتاژ نامی عایقی: ۱۰۰۰ ولت

HGE



ویژگی اصلی: دسترسی وسیع جهت انتحاب مشخصه های جریان، قدرت قطع و مفاصلت نشتی جریان

مکانیزم عملکرد: مرارتی - مغناطیسی (غیر قابل تنظیم)

استانداردها: IEC60947-2/ KS C 4613

مفاصلت ها: اضافه بار، اتصال کوتاه، نشتی جریان (قابل تنظیم زمان - جریانی)

تعداد پل : ۳، ۴

ولتاژ عملکرد: 220-460VAC

جریان نامی: ۱۶ تا ۸۰۰ آمپر

قدرت قطع: ۱۶ تا ۱۰۰ کیلو آمپر

$I_{cs}=100\% I_{cu}$

ولتاژ قابل تحمل ضربه: ۶ کیلو ولت

HGP



ویژگی اصلی: دسترسی وسیع جهت انتحاب مشخصه های جریان، قدرت قطع و تنظیمات مفاصلتی جریانی

مکانیزم عملکرد: مرارتی - مغناطیسی (قابل تنظیم مرارتی - مغناطیسی ، غیر قابل تنظیم)

استانداردها: IEC60947-2/ KS C 8321

مفاصلت ها: اضافه بار، اتصال کوتاه

تعداد پل : ۳، ۴

ولتاژ عملکرد: DC 250V / (220-690 VAC)

جریان نامی: ۱۶ تا ۸۰۰ آمپر

قدرت قطع: ۵۰ تا ۱۵۰ کیلو آمپر

$I_{cs}=100\% I_{cu}$

ولتاژ قابل تحمل ضربه: ۸ کیلو ولت

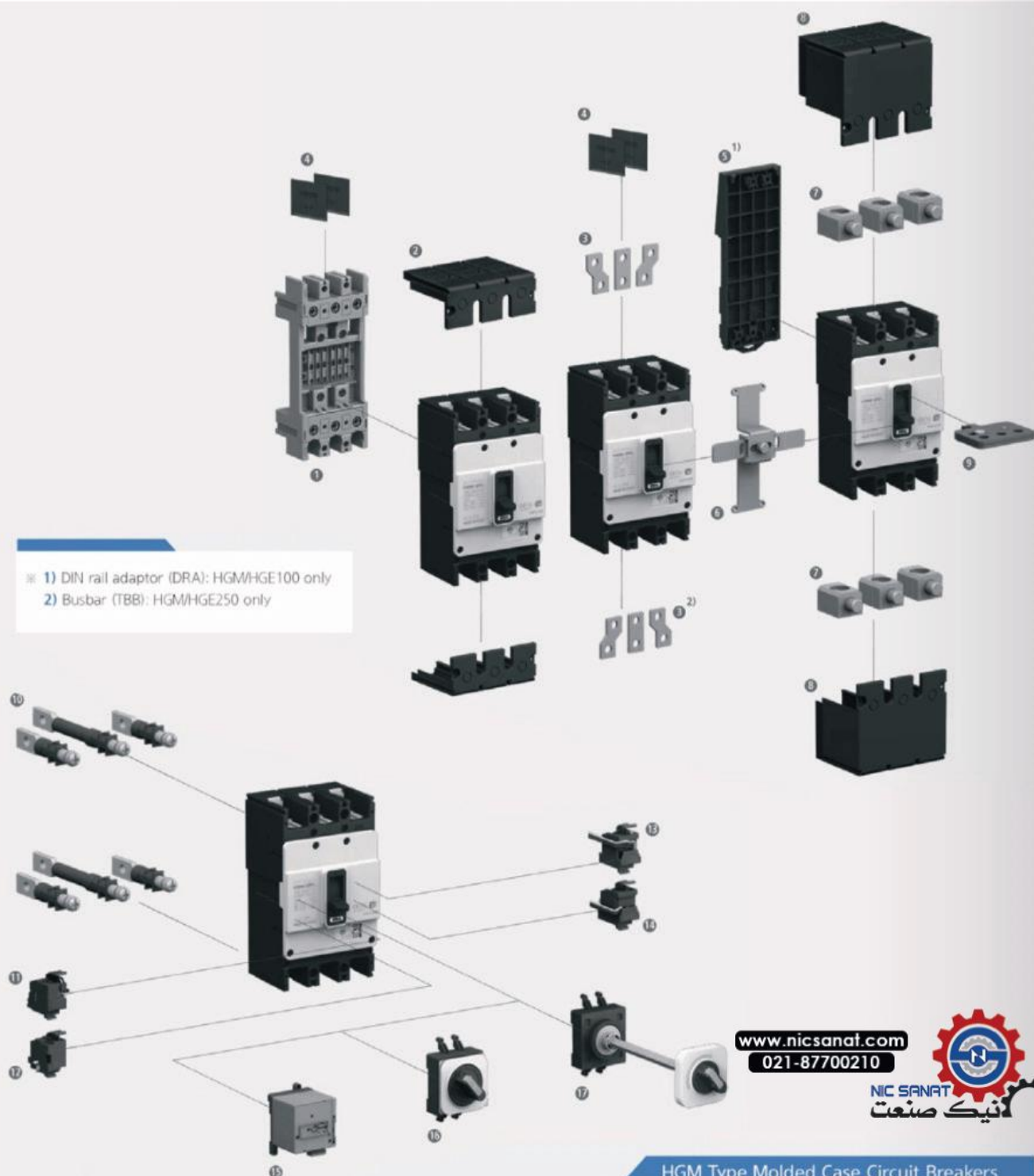
ولتاژ نامی عایقی: ۱۰۰۰ ولت

HG-SERIES

MV		LV					
VC	VCB	MMS	TOR	MC	ACB	MCCB	MCB

Accessories

لوازم جانبی



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HGM Type Molded Case Circuit Breakers

- | | | |
|-----------------------------------|-----------------------------|---------------------------|
| 1 Plug in Devices | 7 Lug Terminal | 13 Auxiliary Switch |
| 2 Terminal Cover for Plug-In Type | 8 Terminal Cover | 14 Trip Alarm Switch |
| 3 Busbar | 9 Padlock for Rotary Handle | 15 Motor Operator |
| 4 Insulation Barrier | 10 Rear Connection Terminal | 16 Direct Rotary Handle |
| 5 DIN Rail Adaptor | 11 Shunt Trip Coil | 17 Extended Rotary Handle |
| 6 Mechanical Interlock | 12 Undervoltage Trip Coil | |

HG-SERIES

MV		LV					
VC	VCB	MMS	TOR	MC	ACB	MCCB	MCB

MCCB(HGM Type):

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نیک صنعت



کلیدهای اتوماتیک کامپکت سری HGM

سایز فریم ۳۰ تا ۶۰ آمپر

30-60AF

Rated Insulation Voltage, U_i	1,000 V
Rated Operational Voltage, U_e	690 V
Impulse Withstand Voltage, U_{imp}	8 kV
Protective Function	Overload, short-circuit and instantaneous protection

Suitability for Isolation	Yes
Utilization Category	A
Pollution Degree	3
Reference Standard	IEC 60947-2

Model			HGM30		HGM50				HGM60			
Frame (AF)			32		50				63			
Pole (P)			2, 3, 4 ¹⁾		2, 3, 4 ¹⁾				2, 3, 4 ¹⁾			
Rated current, at 40 °C (A)			16, 20, 25, 32		16, 20, 25, 32, 40, 50				16, 20, 25, 32, 40, 50, 63			
Rated short-circuit breaking capacity [Icu] (kA rms)	Recognition code for order		E	S	E	S	H	L	E	S	H	L
	AC660/690 V		2.5	5	2.5	5	8	10	2.5	5	7.5	8
	AC480/500 V		7.5	10	7.5	10	26	35	7.5	10	14	26
	AC440/460 V		16	20	16	20	38	55	16	20	26	30
	AC380/415 V		16	20	16	20	38	55	16	20	26	30
	AC220/240 V		35	50	35	50	85	100	35	50	50	50
DC250 V (2P)			5	10	5	10	20	30	5	10	15	15
Service breaking capacity [Ics = % Icu]			100	100	100	100	100	100	100	100	75	50
Endurance (Durability)	Mechanical		30,000		30,000				30,000			
	Electrical		10,000		10,000				10,000			
Trip Device												
Thermal magnetic	Long time [LT]	Fixed	(1.0) x In		(1.0) x In				(1.0) x In			
		Adjustable	(0.8 - 0.9 - 1.0) x In		(0.8 - 0.9 - 1.0) x In				(0.8 - 0.9 - 1.0) x In			
	Instantaneous [INST]		400 A		16 - 32 A: 400 A, 40 - 50 A: 10 x In				16 - 32 A: 400 A, 40 - 63 A: 10 x In			
Accessory												
Internal	Auxiliary switch AUX		●		●				●			
	Alarm switch ALT		●		●				●			
	Shunt trip SHT		●		●				●			
	Undervoltage trip UVT		●		●				●			
External	Rotary handle	Front contact TFG	●		●				●			
		Extended TFH	●		●				●			
	Motor operator MOT		●		●				●			
	Mechanical interlock MIF		●		●				●			
	Locking device PLD		●		●				●			
	Plug-in	TDM (LINE/LOAD)	● (3P Only)		● (3P Only)		● (3P Only)		● (3P Only)			
		TDM (LINE only)	● (3P Only)		● (3P Only)		● (3P Only)		● (3P Only)			
		TDF (LINE only)	● (3P Only)		● (3P Only)		● (3P Only)		● (3P Only)			
		TDA (1 row)	● (3P Only)		● (3P Only)		● (3P Only)		● (3P Only)			
		TDA (2 row)	● (2, 3P Only)		● (2, 3P Only)		● (3P Only)		● (2, 3P Only)			
	Cage terminal block CTB		●		●				●			
	Insulation terminal cover TCF		●		●				●			
	Insulation barrier TQQ		●		●				●			
	Terminal extentions TBB		-		-				-			

Installation and Dimensions

Connection/Installation	Front connection		Terminal screw			
	Rear connection		Horizontal/Vertical			
	Plug-in		Switchboard type (Line & Load, Line only), Distribution board type ²⁾			
	DIN rail installation		Possible for using DIN rail adapter	-	Possible for using DIN rail adapter	
Dimensions (mm)		a (2/3/4P)	50/75/100	50/75/100	60/90/120	50/75/100
		b	130	130	155	130
		c	68	68	68	68
Weight (kg)	2/3/4P		0.6/0.8/1.0	0.6/0.8/1.0	0.8/1.0/1.3	0.6/0.8/1.0
Detailed rating and select	122 Page		122 Page		122 Page	
Characteristics curve and outside view	70 - 80 Page		70 - 80 Page		70 - 80 Page	

HG-SERIES

کلیدهای اتوماتیک کامپکت سری HGM
سایز فریم ۱۰۰ تا ۲۵۰ آمپر

9

MV		LV					
VC	VCB	MMS	TOR	MC	ACB	MCCB	MCB

MCCB(HGM Type): www.nicsanat.com

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کلیدهای اتوماتیک کامپکت سری HGM

سایز فریم ۴۰۰ تا ۸۰۰ آمپر

400-800AF

Rated Insulation Voltage, U_i	1,000 V
Rated Operational Voltage, U_e	690 V
Impulse Withstand Voltage, U_{imp}	8 kV
Protective Function	Overload, short-circuit and instantaneous protection

Suitability for Isolation	Yes
Utilization Category	A
Pollution Degree	3
Reference Standard	IEC 60947-2

Model			HGM400				HGM630				HGM800			
Frame			(AF)	400				630				800		
Pole			(P)	2, 3, 4 ¹⁾				2, 3, 4 ¹⁾				2, 3, 4 ¹⁾		
Rated current, at 40 °C			(A)	250, 300, 350, 400				500, 630				700, 800		
Rated short-circuit breaking capacity [Icu] (kA rms)	Recognition code for order		E	S	H	L	E	S	H	L	S	H	L	
	AC660/690 V		5	8	10	14	5	8	10	14	8	10	14	
	AC480/500 V		18	35	50	65	25	45	50	65	45	50	65	
	AC440/460 V		38	50	70	85	38	50	70	85	50	70	85	
	AC380/415 V		45	65	85	100	45	65	85	100	65	85	100	
	AC220/240 V		50	75	100	125	50	75	100	125	75	100	125	
DC250 V (2P)			20	25	40	40	20	25	40	40	25	40	40	
Service breaking capacity [Ics = % Icu]			100	100	100	100	100	100	100	100	100	100	100	
Endurance (Durability)	Mechanical		4,000				2,500				2,500			
	Electrical		1,000				500				500			
Trip Device														
Thermal magnetic	Long time [LT]	Fixed	(1.0) x In				(1.0) x In				(1.0) x In			
		Adjustable	(0.63 - 0.8 - 1.0) x In				(0.63 - 0.8 - 1.0) x In				(0.63 - 0.8 - 1.0) x In			
	Instantaneous [INST]		10 x In				10 x In				10 x In			
Accessory														
Internal	Auxiliary switch		AUX	●				●				●		
	Alarm switch		ALT	●				●				●		
	Shunt trip		SHT	●				●				●		
	Undervoltage trip		UVT	●				●				●		
External	Rotary handle	Front contact	TFG	●				●				●		
		Extended	TFH	●				●				●		
	Motor operator		MOT	●				●				●		
	Mechanical interlock		MIF	●				●				●		
	Locking device		PLD	●				●				●		
	Plug-in	TDM (LINE/LOAD)		● (3P Only)				● (3P Only)				● (3P Only)		
		TDM (LINE only)		● (3P Only)				● (3P Only)				● (3P Only)		
		TDF (LINE only)		-				-				-		
		TDA (1 row)		-				-				-		
		TDA (2 row)		-				-				-		
	Cage terminal block		CTB	●				●				●		
	Insulation terminal cover		TCF	●				●				●		
	Insulation barrier		TQQ	●				●				●		
	Terminal extensions		TBB	●				●				●		

Installation and Dimensions

Connection/Installation	Front connection	Terminal screw	Terminal screw, Terminal busbar	
	Rear connection	Horizontal/Vertical wiring	Horizontal/Vertical wiring	
	Plug-in	Switchboard type (Line & Load, Line only) ²⁾	Switchboard type (Line & Load, Line only) ²⁾	
Dimensions (mm)	a (2/3/4P)	140/140/184	210/210/280	210/210/280
	b	257	280	280
	c	110	110	110
Weight (kg)	2/3/4P	4/4.5/5.4	8.7/9.5/12.5	8.7/9.5/12.5
Detailed rating and select		122 Page	122 Page	122 Page
Characteristics curve and outside view		70 - 80 Page	70 - 80 Page	70 - 80 Page



HG-SERIES

MV		LV					
VC	VCB	MMS	TOR	MC	ACB	MCCB	MCB

MCCB(HGP Type): 50-160AF

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کلیدهای اتوماتیک کامپکت سری HGP
سایز فریم ۵۰ تا ۱۶۰ آمپر

Rated Insulation Voltage, U_i	1,000 V
Rated Operational Voltage, U_e	690 V
Impulse Withstand Voltage, U_{imp}	8 kV
Protective Function	Overload, short-circuit and instantaneous protection

Suitability for Isolation	Yes
Utilization Category	A
Pollution Degree	3
Reference Standard	IEC 60947-2

Model			HGP50D						HGP125D						HGP160D					
Frame (AF)			50						125						160					
Pole (P)			3, 4 ¹⁾						3, 4 ¹⁾						3, 4 ¹⁾					
Rated current, at 40 °C (A)			16, 20, 25, 32, 40, 50						16, 20, 25, 32, 40, 50, 63, 75, 80, 100, 125						100, 125, 150, 160					
Rated short-circuit breaking capacity [Icu] (kA rms)	Recognition code for order		F	N	S	H	L	X	F	N	S	H	L	X	F	N	S	H	L	X
	AC660/690 V		6	6	8	8	10	10	6	6	8	8	10	10	6	6	8	8	10	10
	AC480/500 V		25	35	50	65	85	100	25	35	50	65	85	100	25	35	50	65	85	100
	AC440/460 V		36	50	65	85	130	150	36	50	65	85	130	150	36	50	65	85	130	150
	AC380/415 V		50	65	85	100	130	150	50	65	85	100	130	150	50	65	85	100	130	150
	AC220/240 V		65	85	100	130	150	200	65	85	100	130	150	200	65	85	100	130	150	200
DC250 V			36	50	65	85	100	100	36	50	65	85	100	100	36	50	65	85	100	100
Service breaking capacity [Ics = % Icu]			100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Rated short-circuit making capacity [Icm] (kA rms)	AC660/690 V		9	9	14	14	17	17	9	9	14	14	17	17	9	9	14	14	17	17
	AC480/500 V		53	74	105	143	187	220	53	74	105	143	187	220	53	74	105	143	187	220
	AC440/460 V		76	105	143	187	286	330	76	105	143	187	286	330	76	105	143	187	286	330
	AC380/415 V		105	143	187	220	286	330	105	143	187	220	286	330	105	143	187	220	286	330
	AC220/240 V		143	187	220	286	330	440	143	187	220	286	330	440	143	187	220	286	330	440
Endurance (Durability)	Mechanical		25,000						25,000						25,000					
	Electrical		10,000						10,000						10,000					
Trip Device																				
Thermal Magnetic	Long time [LT]		(0.8 - 0.9 - 1.0) x In						(0.8 - 0.9 - 1.0) x In						(0.8 - 0.9 - 1.0) x In					
	Instantaneous [INST]		16 - 32 A; 400 A; 40 - 50 A; 10 x In						16 - 32 A; 400 A; 40 - 125 A; 10 x In						10 x In					
Electronic	Long time [LT]		-						-						-					
	Short time [STD]		-						-						-					
	Instantaneous [INST]		-						-						-					
Accessory																				
Internal	Auxiliary switch AUX		●						●						●					
	Alarm switch ALT		●						●						●					
	Shunt trip SHT		●						●						●					
	Undervoltage trip UVT		●						●						●					
External	Rotary handle	Front contact TFG	●						●						●					
		Extended TFH	●						●						●					
	Motor operator MOT		●						●						●					
	Mechanical interlock MIF		●						●						●					
	Locking device PLD		●						●						●					
	Plug-in	TDM (LINE/LOAD)	● (3P Only)						● (3P Only)						● (3P Only)					
		TDM (LINE only)	● (3P Only)						● (3P Only)						● (3P Only)					
	Cage terminal block CTB		●						●						●					
	Insulation terminal cover TCF		●						●						●					
	Insulation barrier TQQ		●						●						●					
Terminal extensions TBB		-						-						-						

Installation and Dimensions

Connection/Installation	Front connection	Terminal screw		
	Rear connection	Horizontal/Vertical		
	Plug-in	Switchboard type (Line & Load, Line only)		
Dimensions (mm)	a (2/3/4P)	90/120	90/120	90/120
	b	140	140	140
	c	86	86	86
Weight (kg)	3/4P	1.5/1.8	1.5/1.8	1.5/1.8
Detailed rating and select		104 Page	104 Page	104 Page
Characteristics curve and outside view		74 - 89 Page	74 - 89 Page	74 - 89 Page

HG-SERIES

MV		LV					
VC	VCB	MMS	TOR	MC	ACB	MCCB	MCB

MCCB(HGP Type):

250-800AF

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کلیدهای اتوماتیک کامپکت سری HGP

سایز فریم ۲۵۰ تا ۸۰۰ آمپر

HGP250						HGP400						HGP630						HGP800					
250						400						630						800					
3, 4 ¹⁾						3, 4 ¹⁾						3, 4 ¹⁾						3, 4 ¹⁾					
100, 125, 150, 160, 175 200, 225, 250						300, 350, 400						500, 630						700, 800					
F	N	S	H	L	X	F	N	S	H	L	X	F	N	S	H	L	X	F	N	S	H	L	X
6	6	8	8	10	10	10	10	10	20	25	35	10	10	10	20	25	35	10	10	10	20	25	35
25	35	50	65	85	100	25	35	50	70	85	100	25	35	50	70	85	100	25	35	50	70	85	100
36	50	65	85	130	150	36	50	70	85	130	150	36	50	70	85	130	150	36	50	70	85	130	150
50	65	85	100	130	150	50	65	85	100	130	150	50	65	85	100	130	150	50	65	85	100	130	150
65	85	100	130	150	200	65	85	100	130	150	200	65	85	100	130	150	200	65	85	100	130	150	200
36	50	65	85	100	100	36	50	65	85	100	100	36	50	65	85	100	100	36	50	65	85	100	100
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
9	9	14	14	17	17	17	17	17	40	53	74	17	17	17	40	53	74	17	17	17	40	53	74
53	74	105	143	187	220	53	74	105	154	187	220	53	74	105	154	187	220	53	74	105	154	187	220
76	105	143	187	286	330	76	105	154	187	286	330	76	105	154	187	286	330	76	105	154	187	286	330
105	143	187	220	286	330	105	143	187	220	286	330	105	143	187	220	286	330	105	143	187	220	286	330
143	187	220	286	330	440	143	187	220	286	330	440	143	187	220	286	330	440	143	187	220	286	330	440
25,000						20,000						20,000						10,000					
10,000						6,000						4,000						3,000					
●						●						●						●					
(0.8 - 0.9 - 1.0) x In						(0.8 - 0.9 - 1.0) x In						(0.8 - 0.9 - 1.0) x In						(0.8 - 0.9 - 1.0) x In					
(5 - 6 - 7 - 8 - 9 - 10) x In						(5 - 6 - 7 - 8 - 9 - 10) x In						(5 - 6 - 7 - 8 - 9 - 10) x In						(5 - 6 - 7 - 8 - 9 - 10) x In					
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●						●						●						●					
●						●						●						●					

MV		LV					
VC	VCB	MMS	TOR	MC	ACB	MCCB	MCB

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کلید اتوماتیک کامپکت الکترونیکی سری HGP

HGP

ویژگی اصلی: دسترسی وسیع جهت انتحاب مشخصه های جریان، قدرت قطع و ...

مکانیزم عملکرد: الکترونیکی - بدون حفاظت فضای زمین (L.S.I)

استاندارد ها: IEC/EN60947-2

حفاظت ها: اضافه بار، اتصال کوتاه تأخیری، اتصال کوتاه آنی

تعداد پل: ۳، ۴

ولتاژ عملکرد: (220-690VAC)

جریان نامی: ۴۰۰، ۶۳۰، ۸۰۰ آمپر

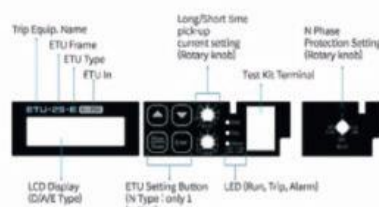
قدرت قطع: ۸۵ کیلو آمپر

ولتاژ قابل تحمل ضربه: ۸ کیلو ولت

ولتاژ نامی عایقی: ۱۰۰۰ ولت



ETU Part Name

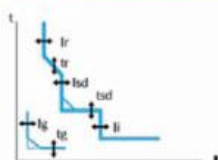


LCD Display / ICON (N Type is not applicable)



Protection Setting Range

D Type



L		Long-Time Protection												
Pick-up [A]	Ir = In x	Dial Setting	0.4	0.45	0.5	0.56	0.63	0.7	0.8	0.9	1			
		Button Setting	Correction in 1 A increments. Max correction value = Dial Setting											
Time Delay [s] Accuracy ±20 %	tr =	Button Setting	0.5	1	2	4	6	8	16					
		1.5×Ir	11.8	23.7	47.3	94.7	142	189	378					
		6×Ir	0.5	1	2	4	6	8	16					
		7.2×Ir	345	690	1.38	2.76	4.2	5.5	11					
Thermal Memory		20 minutes												
S		Short-Time Protection												
Pick-up [A] Accuracy ±15%	Isd = Ir x	Dial Setting	1.5	2	3	4	5	6	7	8	10			
		Butto	I² OFF	0.1	0.2	0.3	0.4							
Time Delay [s]	tsd =	Setting	I² ON	0.1	0.2	0.3	0.4							
		Non Tripping Time		0.08	0.14	0.23	0.35							
		Max Time		0.14	0.2	0.32	0.5							
I		Instantaneous Protection												
Pick-up [A] Accuracy ±15%	Ii = In x	Button Setting	In = 40 A, 100 A, 160 A	1.5	2	4	6	8	10	11	12	13	14	15
		In ≥ 250 A	1.5	2	4	6	8	10	11					
Time Delay [s]	Maximum Time		≤0.05											
In		Neutral Protection												
Pick-up	IN = Ir x		OFF	0.5	1	1.6								
G		Ground-Fault Protection												
Pick-up [A] Accuracy ±15 %	Ig = In x	Button Setting	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1	OFF	In > 40 A		
			0.4	0.5	0.6	0.7	0.8	1	OFF			In = 40 A		
Time Delay [s]	tsd =	Butto	I² OFF	0.1	0.2	0.3	0.4							
		Setting	I² ON	0.1	0.2	0.3	0.4							
		Non Tripping Time		0.08	0.14	0.23	0.35							
		Max Time		0.14	0.20	0.32	0.5							

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MV		LV					
VC	VCB	MMS	TOR	MC	ACB	MCCB	MCB

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کلید اتوماتیک کامپکت الکترونیکی سری UCB

UCB



ویژگی اصلی: دسترسی وسیع جهت انتخاب مشخصه های جریان، قدرت قطع و ...

مکانیزم عملکرد: الکترونیکی - بدون حفاظت فطری زمین (L.S.I.)

استاندارد ها: IEC/EN60947-2

حفاظت ها: اضافه بار، اتصال کوتاه تأخیری، اتصال کوتاه آنی

تعداد پل: ۳، ۴

ولتاژ عملکرد: (220-690VAC)

جریان نامی: ۱۰۰۰، ۱۲۵۰، ۱۶۰۰ آمپر

قدرت قطع: ۱۰۰ کیلو آمپر (۱۶۰۰ آمپر = ۶۵ کیلو آمپر)

ولتاژ قابل تحمل ضربه: ۸ کیلو ولت

ولتاژ نامی عایقی: ۷۵۰ ولت

Model			UCB1000		UCB1250		UCB1600		
Ampere frame size			1000AF		1250AF		1600AF		
Number of poles (P)			3, 4		3, 4		3		
Degree of protection (without terminal bus bar)			IP20		IP20		IP20		
Utilization category			A		A		A		
Suitability of isolation			O		O		O		
Protection			overload, inst., short-circuit		overload, inst., short-circuit		overload, inst., short-circuit		
Rating	Rated current [A]		505-1,000		630-1,250		640-1,600		
	Rated insulation voltage [Ui] [V]		AC750		AC750		AC750		
	Rated operational voltage [Ue] [V]		AC690		AC690		AC690		
	Rated impulse withstand voltage [Uimp] [kV]		8		8		8		
Rated short-circuit breaking capacity	Ultimate [Icu] [kA r.m.s.]	Recognition code for order		S	L	S	L	S	
		AC600/660V, 50-60Hz		40	60	40	60	25	
		AC480/500V, 50-60Hz		75	100	75	100	35	
		AC440/460V, 50-60Hz		75	100	75	100	45	
		AC380/415V, 50-60Hz		100	130	100	130	65	
	AC220/240V, 50-60Hz		100	150	100	150	100		
IEC 60947-2 K 60947-2	Service [Ics]	% of [Icu]	50		50		50		
Trip mechanism & Protection characteristics	Electronic	Long time delay	LTD	[0.5-1] × In [15 setting]		[0.5-1] × In [15 setting]		[0.4-1] × In [8 setting]	
		Short time delay	STD	[2-4-6-8-10] × Ir		[2-4-6-8-10] × Ir		—	
		Instantaneous	INST	[3-6-8-10-11] × In		[3-6-8-10-11] × In		[2-3-4-5-6-7-8-10] × In	
		Ground fault trip	GFT	[0.2-0.3-0.4] × In		[0.2-0.3-0.4] × In		—	
		Pre-trip alarm	PTA	0.9 × Ir		0.9 × Ir		—	
		I ² T lamp		O		O		—	
		Pick-up LED		O		O		O	
Dimensions (mm)		a	Width	210/280	210/280	210/280	210/280	210	
		b	Height	370	370	370	370	371	
		c	Depth	110	200	110	200	151	
		d		159	249	159	249	215	
Weight (kg, breaker only)		3/4P		13/17	25/33	13.5/17.5	25.5/33.5	27	

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