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Технические характеристики на автоматические панели для аварийных генераторных установок только с термомагнитным выключателем NEC-MT 335 компании **ELCOS**

***AUTOMATIC CONTROL PANEL FOR THREE-PHASE EMERGENCY GENERATING SET
WITH ONLY GENERATOR THERMAL-MAGNETIC CIRCUIT BREAKER***

Type NEC-MT335

It exclusively controls and operates the genset, maintains the starter battery charge . Built for wall installation.

INSTALLATION MANUAL



Type	kVA (PRP)	In (A)	Dimensions L x H x P (mm)	Installation
NEC-MT335/22	22	32	400x600x250	For wall mounting
NEC-MT335/28	28	40		
NEC-MT335/40	40	58		
NEC-MT335/55	55	79	600x800x300	
NEC-MT335/69	69	100		
NEC-MT335/86	86	124		
NEC-MT335/111	111	160		
NEC-MT335/138	138	200		
NEC-MT335/156	156	226		
NEC-MT335/218	218	316	600x1000x300	
NEC-MT335/277	277	401		
NEC-MT335/436	436	631	800x1200x300	
NEC-MT335/500	500	725		
NEC-MT335/650	650	940	800x1600x400	For floor mounting
NEC-MT335/800	800	1160		
NEC-MT335/1000	1000	1450		

Complete with:

- Automatic CAM-335 type control unit.
- CBS-010, CBS-031, CBS-061 type automatic battery charger.

DATA FOR ORDERING		
Type	Code (battery a 12V)	Code (battery a 24V)
NEC-MT335/22	00022660	Not available
NEC-MT335/28	00022661	Not available
NEC-MT335/40	00022662	Not available
NEC-MT335/55	00022663	Not available
NEC-MT335/69	00022664	Not available
NEC-MT335/86	00022665	Not available
NEC-MT335/111	00022666	Not available
NEC-MT335/138	00022667	Not available
NEC-MT335/156	00022668	Not available
NEC-MT335/218	00022669	00022670
NEC-MT335/277	Not available	00022671
NEC-MT335/436	Not available	00022672
NEC-MT335/500	Not available	00022673
NEC-MT335/650	Not available	00022674
NEC-MT335/800	Not available	00022675
NEC-MT335/1000	Not available	00022676

SUPPLIED ACCESSORIES	
Type	Code
Automatic 4-pole magnetothermal switch ZN001000	70750626

ACCESSORIES ON REQUEST	
Type	Code
CAPACITY POWER KIT 160A NEC-MT	40100080
CAPACITY POWER KIT 250A NEC-MT	40100082
CAPACITY POWER KIT 400A NEC-MT	40100084
CAPACITY POWER KIT 630A NEC-MT	40100085
CAPACITY POWER KIT A 800A NEC-MT	40100086
KIT PUMP OF FUEL FILLING	40100057
MODEM GSM	00070218

LIST OF COMPONENTS						
Panel	Item	Description	Type	Code	Brand	Q. ty
NEC-MT335/22	TA1,TA2,TA3	CURRENT TRANSFORMER TAIBB D21/16*12.5 40/5	TAIBB 40/5	70512399	IME	3
	X2	FEED-THROUGH TERMINAL BLOCK	CBC.16/GR	70421790	CABUR	4
	Q1	BREAKER4P 32A - S204 C32 6KA	S529242	70100964	ABB	1
	SC2	BATTERY CHARGER P/CBS-010 12V	CBS-010 12V	40010101	ELCOS	1
NEC-MT335/28	TA1,TA2,TA3	CURRENT TRANSFORMER E TAIBB D21/16*12.5 50/5	TAIBB 50/5	70512400	IME	3
	X2	FEED-THROUGH TERMINAL BLOCK	CBC.16/GR	70421790	CABUR	4
	Q1	BREAKER 4P 40A - S204 C40 6KA	S529259	70100965	ABB	1
	SC2	BATTERY CHARGER P/CBS-010 12V	CBS-010 12V	40010101	ELCOS	1
NEC-MT335/40	TA1,TA2,TA3	CURRENT TRANSFORMER TAIBB D21/16*12.5 60/5	TAIBB 60/5	70512401	IME	3
	X2	FEED-THROUGH TERMINAL BLOCK	CBC.16/GR	70421790	CABUR	4
	Q1	BREAKER 4P 63A - S204 C63 6KA	S551113	70100967	ABB	1
	SC2	BATTERY CHARGER P/CBS-010 12V	CBS-010 12V	40010101	ELCOS	1
NEC-MT335/55	TA1,TA2,TA3	CURRENT TRANSFORMER TAIBB D21/16*12.5 80/5	TAIBB 80/5	70512402	IME	3
	X2	FEED-THROUGH TERMINAL BLOCK	GPA.70/GR	70421789	CABUR	4
	Q1	BREAKER 4P 80A - S804B C80 16KA	S804BC80	70100975	ABB	1
	SC2	BATTERY CHARGER P/CBS-010 12V	CBS-010 12V	40010101	ELCOS	1
NEC-MT335/69	TA1,TA2,TA3	CURRENT TRANSFORMER TAIBB D21/16*12.5 100/5	TAIBB 100/5	70512403	IME	3
	X2	FEED-THROUGH TERMINAL BLOCK	GPA.70/GR	70421789	CABUR	4
	Q1	BREAKER 4P 100A - S804B C100 16KA	S804BC100	70100976	ABB	1
	SC2	BATTERY CHARGER P/CBS-010 12V	CBS-010 12V	40010101	ELCOS	1
NEC-MT335/86	TA1,TA2,TA3	CURRENT TRANSFORMER E TAIBB D21/16*12.5 150/5	TAIBB 150/5	70512404	IME	3
	X2	FEED-THROUGH TERMINAL BLOCK	GPA.70/GR	70421789	CABUR	4
	Q1	BREAKER.4P 125A - S804B C125 16KA	S804BC125	70100977	ABB	1
	SC2	BATTERY CHARGER P/CBS-031 12V	CBS-031 12V	40010440	ELCOS	1
NEC-MT335/111	TA1,TA2,TA3	CURRENT TRANSFORMER TA327 D27/32*10.5 250/5	TA327 250/5A	70512407	IME	3
	X2	DIRECT CONNECTION TO Q1				
	Q1	BREAKER XT2N 4P 160A TMG 36KA	XT2N160TMGN	70100905	ABB	1
	SC2	BATTERY CHARGER P/CBS-031 12V	CBS-031 12V	40010440	ELCOS	1
NEC-MT335/138	TA1,TA2,TA3	CURRENT TRANSFORMER TA327 D27/32*10.5 250/5	TA327 250/5A	70512407	IME	3
	X2	DIRECT CONNECTION TO Q1				
	Q1	BREAKER XT3N 4P 250A TMG 36KA	XT3N250TMGN	70100907	ABB	1
	SC2	BATTERY CHARGER P/CBS-031 12V	CBS-031 12V	40010440	ELCOS	1
NEC-MT335/156	TA1,TA2,TA3	CURRENT TRANSFORMER TA540 400/5A	TA540 400/5A	70512454	IME	3
	X2	DIRECT CONNECTION TO Q1				
	Q1	BREAKER. XT3N 4P 250A TMG 36KA	XT3N250TMGN	70100907	ABB	1
	SC2	BATTERY CHARGER P/CBS-031 12V	CBS-031 12V	40010440	ELCOS	1
NEC-MT335/218	TA1,TA2,TA3	CURRENT TRANSFORMER TA540 400/5A	TA540 400/5A	70512454	IME	3
	X2	DIRECT CONNECTION TO Q1				
	Q1	BREAKER TMAX T4N 4P 400A PR221DS-LS/I 36KA	1SDA054325R1	70100909	ABB	1
	SC2	12V	BATTERY CHARGER P/CBS-061 12V	CBS-061 12V	40010444	ELCOS
24V		BATTERY CHARGER P/CBS-061 24V	CBS-061 24V	40010445	ELCOS	1
NEC-MT335/277	TA1,TA2,TA3	CURRENT TRANSFORMER TA540 400/5A	TA540 400/5A	70512454	IME	3
	X2	DIRECT CONNECTION TO Q1				
	Q1	BREAKER TMAX T5N 4P 400A PR221DS-LS/I 36KA	1SDA054325R1	70100909	ABB	1
	SC2	BATTERY CHARGER P/CBS-061 24V	CBS-061 24V	40010445	ELCOS	1
NEC-MT335/436	TA1,TA2,TA3	CURRENT TRANSFORMER TAS64 800/5A	TAS64 800/5A	70512456	IME	3
	X2	DIRECT CONNECTION TO Q1				
	Q1	BREAKER. TMAX T5N 4P 630A PR221DS-LS/I 36KA	1SDA054400R1	70100911	ABB	1
	SC2	BATTERY CHARGER P/CBS-061 24V	CBS-061 24V	40010445	ELCOS	1
NEC-MT335/500	TA1,TA2,TA3	CURRENT TRANSFORMER TAS64 800/5A	TAS64 800/5A	70512456	IME	3
	X2	DIRECT CONNECTION TO Q1				
	Q1	BREAKER TMAX T6N 4P 800A PR221DS-LS/I 36KA	1SDA060273R1	70100913	ABB	1
	SC2	BATTERY CHARGER P/CBS-061 24V	CBS-061 24V	40010445	ELCOS	1
NEC-MT335/650	TA1,TA2,TA3	CURRENT TRANSFORMER TAS64 1200/5A	TAS64 1200/5A	70512457	IME	3
	X2	DIRECT CONNECTION TO BARS Q1				
	Q1	BREAKER TMAX T7S 4P 1250A PR231/P-LS/I 50KA	1SDA062874R1	70100915	ABB	1
	SC2	BATTERY CHARGER P/CBS-061 24V	CBS-061 24V	40010445	ELCOS	1
NEC-MT335/800	TA1,TA2,TA3	CURRENT TRANSFORMER TAS64 1200/5A	TAS64 1200/5A	70512457	IME	3
	X2	DIRECT CONNECTION TO BARS Q1				
	Q1	BREAKER TMAX T7S 4P 1250A PR231/P-LS/I 50KA	1SDA062874R1	70100915	ABB	1
	SC2	BATTERY CHARGER P/CBS-061 24V	CBS-061 24V	40010445	ELCOS	1
NEC-MT335/1000	TA1,TA2,TA3	CURRENT TRANSFORMER TAS64 1600/5A	TAS64 1600/5A	70512458	IME	3
	X2	DIRECT CONNECTION TO BARS Q1				
	Q1	BREAKER T7S 4P 1600A PR231/P-LS/I 50KA	1SDA063002R1	70100917	ABB	1
	SC2	BATTERY CHARGER P/CBS-061 24V	CBS-061 24V	40010445	ELCOS	1

LIST OF COMPONENTS					
Item	Description	Type	Code	Brand	Q. ty
FU1	FUSE 10,3X38 10A gG	5400110	70400306	WIMEX	2
FU1	FUSE HOLDER 2P 10,3X38 DIN RAIL HOOK	5450103S	70450835	WIMEX	1
FU2	FUSE 10,3X38 4A gG	5400104	70400304	WIMEX	1
FU2	FUSE HOLDER E 1P 10,3X38 DIN RAIL HOOK	5450101S	70450833	WIMEX	1
FU3	FUSE 10,3X38 1A gG	5400101	70400301	WIMEX	3
FU3	FUSE HOLDER 3P 10,3X38 DIN RAIL HOOK	5450104S	70450836	WIMEX	1
FU5	FUSE 10,3X38 4A gG	5400104	70400304	WIMEX	1
FU5	FUSE HOLDER 1P 10,3X38 DIN RAIL HOOK	5450101S	70450833	WIMEX	1
FU4	FUSE 10,3X38 1A gG	5400101	70400301	WIMEX	3
FU4	FUSE HOLDER 3P 10,3X38 DIN RAIL HOOK	5450104S	70450836	WIMEX	1
FU6	FUSE 10,3X38 4A gG	5400104	70400304	WIMEX	1
FU6	FUSE HOLDER 1P 10,3X38 DIN RAIL HOOK	5450101S	70450833	WIMEX	1
S1	MUSHROOM-HEAD PUSH-BUTTON D.40 – 2NC -	ER 695 5	70100881	ABB	1
SC1	CONTROL UNIT P/CAM-335	40242262	40242262	ELCOS	1
X1	FEED-THROUGH TERMINAL BLOCK	CBC.2/GR	70421782	CABUR	4
X4	TERMINAL BLOCK STOPPED TERMINAL CABUR	BT007	70421934	CABUR	1
X4	FEED-THROUGH TERMINAL BLOCK	CBC.2/GR	70421782	CABUR	18
X4	FEED-THROUGH TERMINAL BLOCK	CBC.4/GR	70421784	CABUR	2
X4	FEED-THROUGH TERMINAL BLOCK	CBC.6/GR	70421785	CABUR	2

TECHNICAL SPECIFICATIONS								
Type	Power PRP (1)		Power COP (2)		Magnetothermal power at 40°C	Magnetothermal curve	Interruption power at 400V	Standard panel dimensions
	kVA	A	kVA	A				
NEC-MT335/22	22	32	19	28	32	C	6kA	400x600x250
NEC-MT335/28	28	40	25	36	40	C	6kA	400x600x250
NEC-MT335/40	40	63	38	55	63	C	6kA	400x600x250
NEC-MT335/55	55	80	48	70	80	C	16kA	600x800x300
NEC-MT335/69	69	100	60	87	100	C	16kA	600x800x300
NEC-MT335/86	86	125	75	109	125	C	16kA	600x800x300
NEC-MT335/111	111	160	97	141	112 ÷ 160	C	36KA	600x800x300
NEC-MT335/138	138	200	120	174	175 ÷ 250	C	36KA	600x800x300
NEC-MT335/156	173	250	150	217	175 ÷ 250	C	36KA	600x800x300
NEC-MT335/218	218	315	185	268	160 ÷ 400	C	36KA	600x1000x300
NEC-MT335/277	277	400	235	340	160 ÷ 400	C	36KA	600x1000x300
NEC-MT335/436	436	630	335	485	252 ÷ 630	C	36KA	800x1200x300
NEC-MT335/500	550	800	425	616	320 ÷ 800	C	36KA	800x1200x300
NEC-MT335/650	690	1000	504	730	500 ÷ 1250	C	50KA	800x1600x400
NEC-MT335/800	863	1250	630	912	500 ÷ 1250	C	50KA	800x1600x400
NEC-MT335/1000	1104	1600	806	1168	640 ÷ 1600	C	50KA	800x1800x600

Simplified definition of power in accordance with standard ISO8528.

- (1) The PRP is the maximum power that the generator set can supply at variable load during a work cycle for an unlimited number of hours per year. The Permissible Average Power (Ppp) during a 24-hour cycle must not exceed 70% of the PRP value.
- (2) .COP (Continuous Power): The COP is the maximum power that the generator set can supply, for an unlimited number of hours per year, at constant load.

TECHNICAL SPECIFICATIONS			
Battery power supply			
Suitable for batteries		12Vdc	24Vdc
Operating range		8 ÷ 48Vdc	
Absorption with engine not running		110mA@12Vdc	90mA@24Vdc
Battery charger			
Maximum current supplied		1Adc	3,5Adc
Self-consumption in a blackout		12mAdc	15mAdc
6Adc		36mAdc	
Mains and generator voltmetric inputs			
Mains / generator rated voltage		400Vac ±10%	
Rated insulation voltage	Mains voltage terminal	450Vac	
	Genset voltage terminal	450Vac	
	Battery voltage terminal	32Vac	
Insulation class		CLASS 1	
Overvoltage category		CATEGORY3	
Mains and generator frequency		50 ÷ 60Hz	
Heater outputs			
Rated voltage		230Vac	
Maximum power		1000W	
Digital outputs			
Type of output		Positive (battery voltage)	
Maximum load	Terminal X4-8, X4-9, X4-11, X4-20	0,25A	
	Terminal X4-10	1,5A	
Contactor control outputs X4-23, X4-24, X4-25, X4-26			
Output type		Clean contact	
Max. applicable voltage		275Vac	
Maximum load		3A	
Environmental conditions			
Operating temperature		-20 ÷ 40°C	
Storage temperature		-20 ÷ 60°C	
Maximum relative humidity		≤ 80% without condensate @ 40°C	
Maximum altitude		1000m s.l.m.	
Protection class			
Protection class		IP 54	
Installation conditions		FOR INDOOR USE	
Electrical specification			
Operation		STAND-ALONE	
Power systems to which it is connected		TN-IT-TT	
Panel weight			
NEC-MT335/22		20kg	
NEC-MT335/28		20kg	
NEC-MT335/40		20kg	
NEC-MT335/55		25kg	
NEC-MT335/69		25kg	
NEC-MT335/86		25kg	
NEC-MT335/111		50kg	
NEC-MT335/138		50kg	
NEC-MT335/156		55kg	
NEC-MT335/218		70kg	
NEC-MT335/277		70kg	
NEC-MT335/436		90kg	
NEC-MT335/500		100kg	
NEC-MT335/650		170kg	
NEC-MT335/800		170kg	
NEC-MT335/1000		240kg	

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