



Product Catalogue

ATS/ACB/MCCB/MCB/CPS



The leading technology driven in ATS over 20 years

ODM & OEM





ABOUT US

Focus on low voltage electrical products manufacturing field

Shanghai Yuhuang Electric Co., Ltd is a high-tech enterprise that specialized in developing and manufacturing low voltage electrical components, molded case circuit breaker(MCCB),air circuit breaker,miniature circuit breaker,automatic transfer switch(ATS),isolation switch,control and protection switch and etc.

Precision manufacturing process

Through the British Lloyd's ISO9001 system certification, all products have passed the most stringent testing requirements stipulated by GB and IEC standards, and the reliability reaches the international advanced level. With the international leading manufacturing technology, tooling and fixture and testing equipments, we adopt efficient and energy-saving production lines to ensure the precision and reliability of our products.

Start in 2004 ,
Continuous excitation and Pursuit of objectives



YEM3

MOULDED CASE CIRCUIT BREAKER



Product Type

YE	M	3	125	H	4	300	100A	2	Z	A	R
Enterprise code	Product category	Design code	Current rank	Breaking capacity	Pole	Part NO	Rated current	operation type	Use NO	N Pole shape	Wiring

□ Standard:GB/T 14048.2 IEC 60947-2

Name	Details
Enterprise code	Shanghai Yuhuang Electric Co.,Ltd
Product category	Moulded Case Circuit Breaker
Design code	3
Current rank	125,160,250,400,630,800
Breaking capacity	L=Economical type, M=Standard type, H= High score type
Pole	3P,4P
Part NO	300=No part (Please see the release part NO. table)
Rated current	10A~800A
Use NO	None=Power distribution type breaker 2= Protect motor
Operation type	None = Manual direct operation P= Electric operation Z=Manual Manipulation

Name	Details
N Pole shape	Four poles products' N polar form: A type: N polar do not install over-current release, and N polar electrifies all the time, at the same time,N Polar does not open and close together with other three B type: N polar do not install over-current release, and N polar opens and closes together with other three polars. C type: N polar installs over-current release, and N polar opens and closes together with other three polars. D type: N polar installs over-current release, and N polar electrifies all the time, at the same time,N Polar does not open and close together with other three polars
Wiring type	None=None(front wiring),R(Back board wiring),PR(plug-in)

Technical parameter

Mode	YEM3-63	YEM3-125	YEM3-250	YEM3-400	YEM3-630	YEM3-800
Current rank	63	125	250	400	630	800
Rated current In(A)	10/16/20/25 32/40/50/63 80/100/125	16/20/25/32/40 50/63/80/100 125/160	100/125/140 160/180/200 225/250	200/225/250 315/350/400	200/250/315/350 400/500/630	400/500 630/700/800
Rated working voltage Ue(V)	AC415					
Rated insulation voltage Ui(V)	AC800					
Pole	3 3 4	3 3 4 3 4	3 3 4 3 4 3 4	3 3 4 3 4 3 4 3 4	3 3 4 3 4 3 4 3 4 3 4	3 3 4 3 4 3 4 3 4 3 4
Class of rated ultimate short-circuit breaking capacity	L M	L M H	L M H	L M H	L M H	L M H
Rated ultimate short-circuit breaking capacity Icu(kA)	8					
Rated ultimate short-circuit breaking capacity Ics(kA)	10					
Rated service short-circuit breaking capacity Ics(kA)	10					
Operation performance (times)	40000					
Electrified	40000					
Unelec-trified	20000					
Outline dimension	Unit:mm					
L	130	150	165	257	257	275
W (3P/4P)	76/101	92/122	107/142	140/184	150/198	210/280
H (L/M, H)	60/76	68/85.5	76/88	102.5	102.5	123
Arc-over distance(mm)	≤50					

YEM3Z

ADJUSTABLE TYPE CIRCUIT BREAKER



(LCD Type)



(Knob Type)

Product Type

YE	M	3	Z	125	P	/	3	E	00	2	T1	TH	R	125A
Enterprise code	Product category	Design code	Product code	Current rank	Operation Type		Pole	Part NO	Attachment No	Use No	Com fun No	Application No	Wiring	Rated current

□ Standard:GB/T 14048.2 IEC 60947-2

Name	Details
Enterprise code	Shanghai Yuhuang Electric Co.,Ltd
Product category	Moulded Case Circuit Breaker
Design code	3
Product code	Electronic Plastic Shell Type Circuit Breaker
Current rank	125,250,400,630,800
Operation Type	None=Manual direct operation P=Electric operation Z=Manual manipulation
Pole	3P,4P

Name	Details
Part NO	E=Dial setting, ZA=Current Measurement, ZV=Current measurement + voltage protection, ZG=Current measurement + voltage protection + ground fault protection function (for details of the functions of the trip, see the trip selection table)
Attachment No	See the "Attached Code" table for details
Use NO	None = Power distribution circuit breaker, 2=Protection motor
Com fun No	None = No com fun, T1=Modbus, T2=DL/T-645
Application No	None = Normal environment, TH=Hot and humid zone type (to be customized)
Wiring	None=Front wiring, R=Back board wiring, PR=Plug-in
Rated current	12.5A-800A

Technical parameter

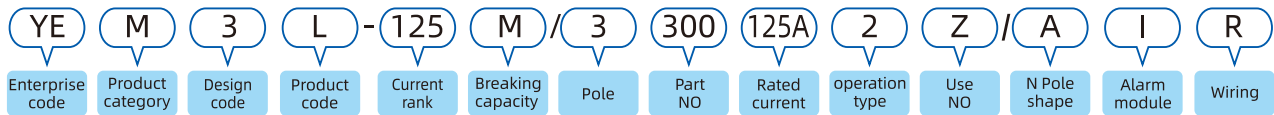
Mode	YEM3Z-125	YEM3Z-250	YEM3Z-400	YEM3Z-630	YEM3Z-800						
Current rank	125	250	400	630	800						
Rated current In(A)	32(12.5~32)/63(25~63) 125(50~125)	250(100~250)	400(160~400)	630(250~630)	800(315~800)						
Rated working voltage Ue(V)	AC415										
Rated insulation voltage Ui(V)	AC1000										
Pole	3	4	3	4	3	4	3	4	3	4	
Rated ultimate short-circuit breaking capacity Icu(kA)	AC690V	8		10							
	AC415V	50		75							
Rated service short-circuit breaking capacity Ics(kA)	AC690V	8		10							
	AC415V	36		50							
Operation performance (times)	Elctrifified	40000		20000		10000					
	Unelec-trified	20000		10000		5000					
Outline dimension 	L	150	150	165	165	259	259	259	259	281	281
	W	92	122	107	142	140	184	150	198	210	280
	H	94	94	94	94	115	115	115	115	118	118
Arc-over distance(mm)	≤50					≤100					

YEM3L

WITH RESIDUAL CURRENT CIRCUIT BREAKER



Product Type



□ Standard:GB/T 14048.2

Name	Details
Enterprise code	Shanghai Yuhuang Electric Co.,ltd
Product category	Moulded Case Circuit Breaker
Design code	3
Product code	With Residual Current Circuit Breaker
Segmentation capability	M=Standard type
Number of product poles	3=Level 3, 4=Level 4
Accessories code	300=no accessories, see "Release and accessory code" table for details

Name	Details
Rated current	16A-630A
Usage code	None=circuit breaker for power distribution, 2=protection of motor
Operation mode	None=handle direct operation, P=electric operation, Z=rotating handle operation
Class N type	Form of neutral pole (N-pole) of four-pole product:Type A: The N-pole is not equipped with an overcurrent release, and the N-pole is always connected, and does not open or close together with the other three poles.Type B: The N-pole is not equipped with an overcurrent release, and the N-pole is closed and opened together with the other three poles (the N-pole is closed first and then opened).
LeakAge alarm function code	None=without leakAge alarm unit module, I=leakAge trip and alarm, II=leakAge alarm not trip
Wiring mode	None=front panel wiring, R=rear panel wiring, PR=plug-in type

Technical parameter

Mode	YEM3L-125		YEM3L-250		YEM3L-400		YEM3L-630		
Current rank	125		250		400		630		
Rated current In(A)	16/20/25/32/40/50/63/80/100/125		100/125/140/160/180/200/225/250		225/250/315/350/400		400/500/630		
Rated working voltage Ue(V)	AC415								
Rated insulation voltage Ui(V)	AC1000								
Pole	3	4	3	4	3	4	3	4	
Class of rated ultimate shortcircuit breaking capacity	M		M		M		M		
Rated ultimate short-circuit breaking capacityIcu(kA)	AC690V	8			10				
	AC415V	50			75				
Rated sevice short-circuit breaking capacityIcs(kA)	AC690V	8			10				
	AC415V	36			50				
Rated remaining working currentIΔn(A)	0.03/0.1/0.3/0.5				0.1/0.3/0.5/1		0.3/0.5/1		
Limit non-drive timeΔt(ms)	0/200/400/1000								
Rated remaining inactive current IΔno(A)	1/2 IΔn								
Remaining short-circuit (connecting and breaking) capacity IΔm(A)	1/4 Icu								
Operation performance (times)	Elctrified	40000				20000		10000	
	Unelec-trified	20000				10000		5000	
Outline dimensions Unit:mm	L	150	150	165	165	259	259	281	281
	W	92	122	107	142	140	184	210	281
	H	110	110	118	118	155	155	161	161
Arc-overdistance(mm)	≤50								

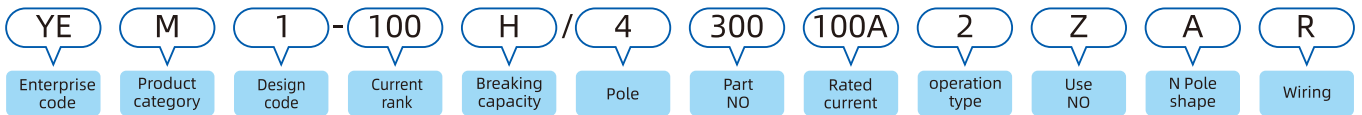
Note : □ When IΔn adjusts to 0.03A , the limit non-drive time is fixed at 0 , Time adjustment is not effective ! □ When Δt adjusts to 0 , means non-delay.

YEM1

MOULDED CASE CIRCUIT BREAKER



Product Type



□ Standard:GB/T 14048.2 IEC 60947-2

Name	Details
Enterprise code	Shanghai Yuhuang Electric Co.,Ltd
Product category	Moulded Case Circuit Breaker
Design code	1
Current rank	63,100(125),225(250),400,630,800,1250
Breaking capacity	L=Economical type, M=Standard type, H= High score type
Pole	3P,4P
Part NO	300=No part (Please see the release part NO. table)

Name	Details
Rated current	16A~1250A
Use NO	None=Power distribution type breaker 2= Protect motor
Operation type	None = Manual direct operation P= Electric operation Z=Manual manipulation
N Pole shape	Four poles products' N polar form: A type: A type, N pole does not install over-current release, and N pole electrifies all the time, at the same time, N Pole does not open and close together with other three. B type: N pole does not install over-current release, and N pole opens and closes together with other three poles. C type: N pole install over-current release, and N pole opens and closes together with other three poles. D type: N pole installs over-current release, and N pole electrifies all the time, at the same time, N Pole does not open and close together with other three poles.
Wiring type	None=None(front wiring),R(Back board wiring),PR(plug-in)

Technical parameter

Mode	YEM1-63	YEM1-100	YEM1-225	YEM1-400	YEM1-630	YEM1-800	YEM1-1250	
Current rank	63	100	225	400	630	800	1250	
Rated current In(A)	6/10/16 20/25/32 40/50/63	16/20/25 32/40/50 63/80/100	100/125/160 180/200/225	200/250 315/350/400	400/500/630	630/700/800	630/700 800/1000 1250	
Rated working voltage Ue(V)	AC400							
Rated insulation voltage Ui(V)	AC690							
Pole	3	3	4	3	3	4	3	
Class of rated ultimate shortcircuit breaking capacity	L	M	H	L	M	H	L	
Rated ultimate short-circuit breaking capacity Icu(kA)	AC690V	/	8	8	8	8	10	
	AC400V	30	50	35	50	85	35	
Rated service short-circuit breaking capacity Ics(kA)	AC690V	/	4	8	4	8	5	
	AC400V	20	35	22	35	50	22	
Operation performance times)	Electrified	4500	3000	2500	1500	1500	1000	
	Unelec-trified	8500	7000	6500	4000	4000	2500	
Outline dimensions 	L	135	150	165	257	270	467	
	W	78	78	101	92	92	122	
	H	72	81.5	81.5	69	86	86	
Arc-overdistance(mm)	≤50		≤50		≤50		≤50	

YEM1L

WITH RESIDUAL CURRENT CIRCUIT BREAKER



Product Type



□ Standard:GB/T 14048.2 IEC 60947-2

Name	Details
Enterprise code	Shanghai Yuhuang Electric Co.,Ltd
Product category	Moulded Case Circuit Breaker
Design code	1
Product code	Moulded case earth leakAge circuit breaker
Current rank	100(125),225(250),400,630
Breaking capacity	L=Economical type, M=Standard type, H= High score type
Pole	3P,4P
Part NO	300=No part (Please see the release part NO. table)
Rated current	16A~630A

Name	Details
Use NO	None=Power distribution type breaker 2= Protect motor
Operation type	None = Manual direct operation P= Electric operation Z=Manual manipulation
N Pole shape	Four poles products' N polar form: A type: N polar do not install over-current release, and N polar electrifies all the time, at the same time,N Polar does not pen and close together with other three B type: N polar do not install over-current release, and N polar opens and closes together with other three poles.
Wiring type	None=None(front wiring),R(Back board wiring),PR(plug-in)
Release form	V type, U type, W type, VA type
Alarm module	None=No alarm module, I=Alarm and trip, II=Alarm and don't trip

Technical parameter

Mode	YEM1L-100			YEM1L-225			YEM1L-400			YEM1L-630				
Current rank(A)	100			225			400			630				
Pole	3	4		3	4		3	4		3	4			
Rated current In(A)	16/20/25/32/40/50/63/80/100			100/125/140/160/180/200/225			225/250/315/350/400			400/500/630				
Rated insulation voltage Ui(V)										AC800				
Rated impulse withstand voltage Uimp(V)										8000				
Rated working voltage Ue(V)50Hz/60Hz										AC400				
Arc-over distance(mm)										≥50(0) ²⁾				
Class of rated ultimate short-circuit breaking capacity	M	H	L	M	H	L	M	H	L	M	H	L		
Rated ultimate short-circuit breaking capacity Icu(kA)	50	85	50	50	85	50	65	100	65	65	100	65		
Rated service short-circuit breaking capacity Ics(kA)	35	50	35	35	50	35	42	65	42	42	65	42		
Rated residual operating current IΔn(A)	AC type residual current protection	U type release, non delay	0.03/0.1/0.3/0.5			0.03/0.1/0.3/0.5			/			/		
		V type release, non delay, adjustable delay	0.1/0.3/0.5			0.1/0.3/0.5			0.1/0.3/0.5			0.3/0.5/1		
		W type release, non delay, adjustable delay	0.3/1/3/10			0.3/1/3/10			1/3/10/30			1/3/10/30		
IΔn(A)	A type residual current protection	VA type release, non delay, adjustable delay	0.1/0.3/0.5			0.1/0.3/0.5			0.1/0.3/0.5			0.3/0.5/1		
			1/2IΔn			1/2IΔn			1/2IΔn			1/2IΔn		
Rated residual short-circuit connect(breaking) capacity IΔm(kA)	1/4Icu			1/4Icu			1/4Icu			1/4Icu				
Use category	A			A			A			A				
Electrical life(times) ¹⁾	8000			8000			7500			7500				
Mechanical life(times) ¹⁾	Maintenance free			20000			10000			10000				
	Maintenance			40000			20000			20000				
Outline dimension (mm)	W	92	122	107	142	150	198	210	280	280	280	280		
	L	150			165			257			280			
	H	92			90			106.5			115.5			

YEM1E

ADJUSTABLE TYPE CIRCUIT BREAKER



Product Type



□ Standard: GB/T 14048.2 IEC 60947-2

Name	Content
Enterprise code	Shanghai Yuhuang Electric Co. Ltd
Product category	Moulded Case Circuit Breaker
Design code	1
Product code	Moulded case electronic circuit breaker
Current rank	100,250,400,630,800
Pole	3P,4P

Name	Content
Part NO	300=Nopart (Please see the release part NO. table)
Rated current	32A~800A
Use NO	None=Power distribution type breaker 2=Protect motor
Operation type	None=Handle direct operation P=Electric operation Z=Rotating handle operation
Wiring	None=Front board connection, R=Behind board connection, PR=Plug-inconnection

Technical parameter

Mode	YEM1E-100		YEM1E-250		YEM1E-400		YEM1E-800		
Current rank(A)	100		250		400		800		
Pole	3	4	3	4	3	4	3	4	
Rated current In(A)	32(12.5 ~ 32) 63(25 ~ 63) 100(40 ~ 100)		250(100 ~ 250)		400(160 ~ 400)		630(250 ~ 630) 800(315 ~ 800)		
Rated insulation voltage Ui(V)	AC800								
Rated impulse withstand voltage Uimp(V)	8000								
Rated working voltage Ue(V)50Hz/60Hz	AC400								
Arc-over distance(mm)	≥50(0) ²⁾		≥50(0) ²⁾		≥100(0) ²⁾		≥100(0) ²⁾		
Class of rated ultimate short-circuit breaking capacity	50		50		65		75		
Rated service short-circuit breaking capacity Ics(kA)	35		35		42		50		
Rated short-time tolerant current Icw(kA)/1s	-		-		5		10		
Use category	A		A		B		B		
Electrical life(times) ¹⁾	8000		8000		7500		7500		
Electrical life(times) ¹⁾	Maintenance free	20000		20000		10000		10000	
	Maintenance	40000		40000		20000		20000	
Outline dimension (mm)	W	92	122	107	142	150	198	210	280
	L	150		165		257		280	
	H	92		90		106.5		115.5	

Note: 1) According to GB 14048.1, the lifetime indicates the probability of the number of operating cycles that the appliance completes before repairing or replacing parts.
2) Optional zero flying arc cover with a height of 6.2mm for YEM1E-100, 7.5mm for YEM1E-225, 9.3mm for YEM1E-400, 9.5mm for YEM1E-630/800.

YEB1

MINIATURE CIRCUIT BREAKER



Product Type



□ Standards: GB/T 10963.1 IEC60898-1

Name	Details
Enterprise code	Shanghai Yuhuang Electric Co.,Ltd.
Product category	Miniature Circuit Breaker
Design code	1
Current rank	63
Pole	1P, 2P, 3P, 4P
Using code	C=Light distribution, D=Motor protection
Rated current	3A~63A

Technical parameter

Rated voltage(V)	Pole	Rated current(A)	Rated short circuit breaking capacity	
			Predictive current of tests(A)	Power factor
230	1	3,6,10,16,20, 25,32,40	6000	0.65~0.70
230/400	1			0.65~0.70
400	2,3,4			0.65~0.70
230	1	50,63		0.75~0.80
230/400	1			0.75~0.80
400	2,3,4			0.75~0.80

Remark:

- 1.Mechanical life:20000 times(off-on).
- 2.Electrical life:4000 Cycles.

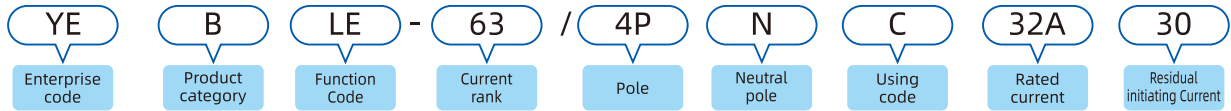
- 3.Anti humid heat type:ll (The temperature is 55 degrees, the relative humidity is 95%).
- 4.Wiring with clamp terminal,cross-section of cable can be up to 25mm².

YEB1LE

MINIATURE CIRCUIT BREAKER



Product Type



Standards: GB/T 16917.1、GB/T 10963.1、IEC61009-1、IEC60898-1

Name	Details
Enterprise code	Shanghai Yuhuang Electric Co.,Ltd.
Product category	Miniature Circuit Breaker
Design code	1
Function code	Electronic type residual current protection function
Current rank	63
Pole	1P, 1P+N, 2P, 3P, 3P+N, 4P
Neutral pole	+N
Using code	C=Light distribution, D=Motor protection
Rated current	3A~63A
Residual initiating current	30,50,100,300

Technical parameter

Rated voltage(V)	Rated frame graded Current I _{nm} (A)	Pole	Neutral	Rated current(A)	Rated leakAge operate current I _Δ no (mA)	Rated leakAge no operate current I _Δ no (mA)	Rated leakAge operate time(s)
230	63	1	+N	3,6,10,16, 20,35,32, 40,50,63	30,(50), (100),(300)	15,(25),(50), (150)	<0.1
230/400	63	2					<0.1
230/400	63	3	+N				<0.1
230/400	63	3					<0.1
230/400	63	4					<0.1

Remark:

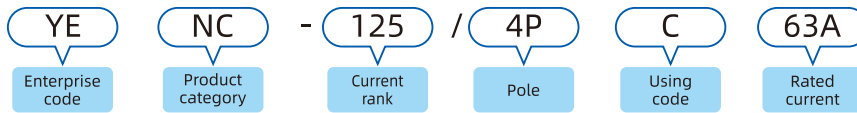
- 1.Wiring with clamp terminal,Hardwire can be connect to 25mm² and below ,
- 2.Notice:Rated residual current of 30mA or less indirect protection or personal safetyfeatures, but not simultaneously contact the two wires leakAge protection at the same time.

YENC-125

MINIATURE CIRCUIT BREAKER



Product Type



□ Standards: GB/T 10963.1 IEC60898-1

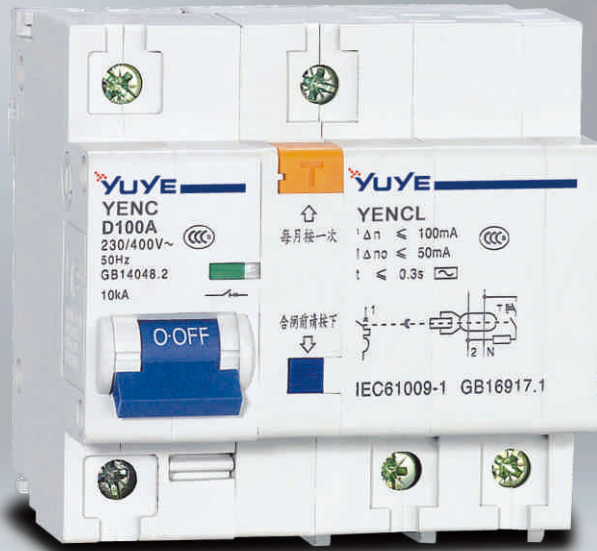
Name	Details
Enterprise code	Shanghai Yuhuang Electric Co.,Ltd.
Product category	Miniature Circuit Breaker
Design code	1
Pole	1P, 2P, 3P, 4P
Using code	C=Light distribution, D=Motor protection
Rated current	63A~125A

Technical parameter

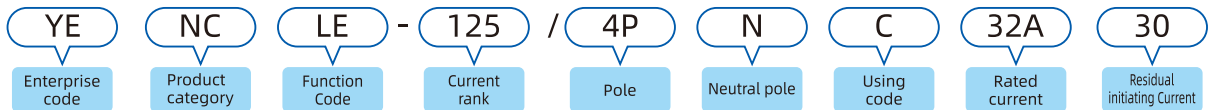
Rated voltage(V)	Pole	Rated current(A)	Rated short circuit breaking capacity	
			Predictive current of tests(A)	Power factor
230/400	1P	63,80, 100,125	10000	0.75 ~ 0.80
400	2P/3P/4P			

YENCLE-125

MINIATURE CIRCUIT BREAKER



Product Type



□ Standards: GB/T 16917.1、GB/T 10963.1、IEC61009-1、IEC60898-1

Name	Details
Enterprise code	Shanghai Yuhuang Electric Co.,Ltd.
Product category	Miniature Circuit Breaker
Function code	Electronic type residual current protection function
Current rank	125
Pole	1P+N, 2P, 3P, 3P+N, 4P
Neutral pole	+N
Using code	C=Light distribution, D=Motor protection
Rated current	63A~125A
Residual initiating current	30,50,100,200,300

Technical parameter

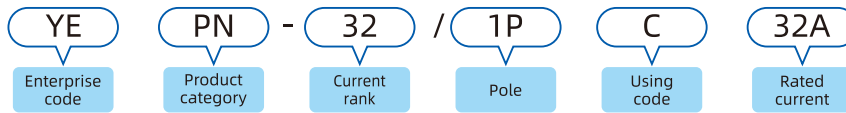
Rated voltage(V)	Rated frame graded Current Inm(A)	Pole	Neutral	Rated current (A)	Rated leakAge operate current IΔno (mA)	Rated leakAge no operate current IΔno (mA)	Rated short circuit breaking capacity Icu(A)	Over voltage protection setting (V)	Rated leakAge operate time(s)	Release type
230	125	1	N	63,80 100, 125	30,50, 100,200, 300	15,25,50, 100,150	10000	280±5%	≤0.1	C、D
230		2	/							
400		3	/							
400		3	N							

YEPN

MINIATURE CIRCUIT BREAKER



Product Type



□ Standards: GB/T 10963.1 IEC60898-1

Name	Details
Enterprise code	Shanghai Yuhuang Electric Co.,Ltd.
Product category	Miniature Circuit Breaker
Design code	32
Pole	1P+N(N can been open and close)
Using code	C=Light distribution, D=Motor protection
Rated current	3A~32A

Technical parameter

Rated current(A)	Pole	Rated voltage(V)	Rated frame graded current(A)	Rated short circuit breaking capacity(A)	Power factor	Mechanical life(times)
6,10,16 20,25,32	1P+N	230	32	4500	0.65~0.70	20000

Remark:

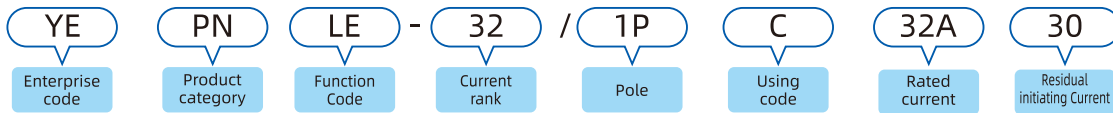
1. Anti humid heat type: II (The temperature is 55 degrees, the relative humidity is 95%).
2. Wiring with clamp terminal, hard wires smaller than 10mm².

YEPNLE

MINIATURE CIRCUIT BREAKER



Product Type



□ Standards: GB/T 16917.1、IEC61009-1

Name	Details
Enterprise code	Shanghai Yuhuang Electric Co.,ltd.
Product category	Miniature Circuit Breaker
Function code	Electronic type residual current protection function
Current rank	32
Pole	1P+N(N can been open and close)
Neutral pole	+N
Using code	C=Light distribution , D=Motor protection
Rated current	3A~32A
Residual initiating current	30

Technical parameter

Rated current(A)	Pole	Rated voltage(V)	Rated frame graded current I _{nm} (A)	Rated leakAge operate current I _{Δno} (mA)	Rated leakAge no operate current I _{Δno} (mA)	Rated leakAge operate time(s)	Breaking capacity(A)
6,10,16 20,25,32	1P+N	230	32	30	15	≤0.1s	3000

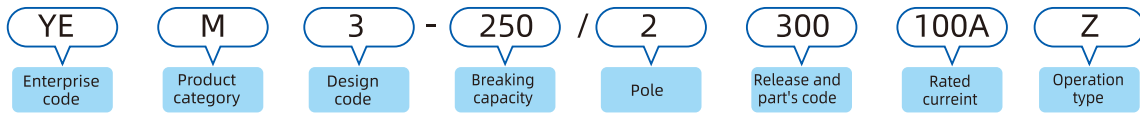
Remark:Wiring with clamp terminal, hard wire smaller than 10mm².

YEM3D

DC PLASTIC SHELL TYPE CIRCUIT BREAKER



Product Type



□ Standards: GB/T 14048.2 IEC60947-2

Name	Details
Enterprise code	Shanghai Yuhuang Electric Co.,Ltd.
Product category	Moulded Case Circuit Breaker
Design code	1
Product's code	D=Plastic Shell Type Circuit Breaker
Breaking capacity	250
Pole	2=2P
Release and part's code	300=no part (Please see the release part NO. table)(P45)
Rated current	100A~250A
Operation type	None = Manual directoperation P= Electric operation Z=Manual manipulation
Use NO	None=Power distribution type breaker 2=Protect motor

Technical parameter

Type	YEM3D-250		Type	YEM3D-250	
Rated voltage Ue(V)	DC 1500		Trip method	Thermal magnetic protection	√
Rated insulation voltage Ui(V)	1600			Single magnetic protection	√
Rated impulse with stand voltage Uimp(kV)	12		Installation method	Front board wiring	√
Rated current In(A)	100/125/160/180/200/225/250			Back board wiring	√
Pole	2		Accessories self-installation		Yes
Rated ultimate short-circuit breaking capacity Icu(kV)	15		Isolation function		Yes
Rated ultimate short-circuit breaking capacity Icu(kA)	15		Using category		A class
Operation performance	No mechanical maintenance	7000	Installation dimension		35*161*φ5
	Electrified	1000	Size(Wide * high * long)		200*135*86
Protection type	Distribution protection	√			
	Motor protection	√			



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