

# Moulded-case circuit breakers for power distribution

## FORMULA & Accessory



	FORMULA 125A						FORMULA 250A				FORMULA 400A		FORMULA 630A		
Electrical Characteristics	A1C	A1N	A1N	A1A	A1B	A1C	A1N	A2N	A2B	A2C	A2N	A3N	A3S	A3N	A3S
No. of Pole [No.]	1	1	2	3	3	3	3	2	3	3	3	3	3	3	3
<b>Breaking capacity,Icu</b>															
(AC) 50-60Hz 240V [kA]	18	25	50	10	25	30	100	50	25	50	85	85	100	85	100
(AC) 50-60Hz 380V [kA]	2.5	5	36***	10	18	25	36	36	18	25	36	36	50	36	50
(AC) 50-60Hz 415V [kA]	2.5	5	36***	10	18	25	36***	36	18	25	36	36	50	36	50
(DC) 125V-1 poles in series, เฉพาะรุ่น Thermomagnetic Release [kA]	5	10													
(DC) 250V-2 poles in series, เฉพาะรุ่น Thermomagnetic Release [kA]			10	5	5	10	10	10	18	25	36	36	50	36	50
<b>Breaking capacity,Ics</b>															
(AC) 50-60Hz 240V [kA]	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
(AC) 50-60Hz 380V [kA]	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
<b>Rated service voltage,Ue (AC)</b> [Vac]	415	415	550	550	550	550	550	550	550	550	550	550	550	550	550
<b>Rated service voltage,Ue (DC)</b> [Vdc]	125	125	250	250	250	250	250	250	250	250	250	250	250	250	250
<b>Overcurrent release/relays</b>															
Thermomagnetic: TMF (ปรับตั้งกระแสไม่ได้)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Electronic: ELT Fixed LI (ปรับตั้งกระแสไม่ได้)															
Basic dimension (W x D x H) [mm.]	25.4x60x130	50.8x60x130		76.2x60x130				70x60x150	105x60x150			139.5x103.5x205		139.5x103.5x205	
<b>ราคาต่อหน่วย = บาท (3 poles fixed version)</b>															
<b>Thermomagnetic</b>															
15A	2,270	TMF	TMF	3,210	3,320	3,440	4,070					TMF	TMF	TMF	TMF
16A	2,270		2,920	3,210	3,320	3,440	4,070								
20A, 25A, 30A, 40A, 50A, 60A, 70A, 80A, 90A, 100A	2,270	2,460	2,920	3,210	3,320	3,440	4,070								
125A	2,350	2,630	3,440	3,780	4,350	4,470	5,550	7,440	5,610	5,730	7,900				
160A								7,440	5,610	5,730	7,900				
175A, 200A, 225A, 250A								8,880	6,180	6,300	8,470				
320A												17,180	18,670		
400A												17,180	18,670		
500A															
Electronic Release															
630A														18,900	20,380
														29,200	29,780
<b>ราคาอุปกรณ์เสริม = บาท (Assessories)</b>															
<b>Duty releases 220V 50Hz</b>															
Shunt opening releases			2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	3,610	3,610	3,610	3,610
Undervoltage releases			3,890	3,890	3,890	3,890	3,890	3,890	3,890	3,890	3,890	3,610	3,610	3,610	3,610
Electronic Time Delay															
<b>Electrical signalling</b>															
<b>Auxiliary contacts</b>															
1 Chang over + 1 trip single			2,180	2,180	2,180	2,180	2,180		2,180	2,180	2,180	2,710	2,710	2,710	2,710
2 Chang over + 1 trip single				2,400	2,400	2,400	2,400	2,400							
3 Chang over + 1 trip single								2,980	2,400	2,400	2,400	3,610	3,610	3,610	3,610
<b>Motor operator 220V 50Hz.</b>															
<b>Operating mechanism and lock</b>															
Rotary handle (Direct)				2,000	2,000	2,000	2,000		2,000	2,000	2,000	4,640	4,640	4,640	4,640
Rotary handle (Door mounted)				3,150	3,150	3,150	3,150		3,150	3,150	3,150	7,670	7,670	7,670	7,670
Key lock on Rotary handle				1,890	1,890	1,890	1,890		1,890	1,890	1,890	1,190	1,190	1,190	1,190
<b>Operating security</b>															
Removable PLL	660	660	660	660	660	660	660	660	660	660	660				
Pad lock (A1&A2), Front Flange Level (A3&T5-T6)				1,320	1,320	1,320	1,320	1,320	1,320	1,320	1,320	1,600	1,600	1,600	1,600

\*สอบถามรายละเอียดได้ที่ตัวแทนจำหน่ายหรือบริษัท เอบีบี จำกัด  
 \*\*สำหรับรุ่น 4 Poles สามารถใช้ราคาตั้งของรุ่น 3 Poles คูณด้วย 1.4  
 \*\*\*In = 15A, Icu = 30kA

