

# Molded Case Circuit Breakers

## External Accessories

### Selection

### Handle Ties

Provide simultaneous switching of 2 adjacent handles. Do not provide common trip.

For Use With Breaker Frame(s)	Catalog Number	List Price \$ each	Standard Package	Wt Lb/Std Pkg
BQ, BQH, HBQ, BLH, HBL	ECQTH3	200.00 <sup>Ⓞ</sup>	50	¼

### Padlocking Devices

For locking breaker in "OFF" position.

BQXD, BL, BQ, BQH, HBQ, BLH, HBL	ECQLD3	98.00 <sup>Ⓞ</sup>	10	¼
One pole BL, BLF, BE, BAF	ECPLD1	10.10	10	¼
Two pole BL, BLF and BE	ECPLD2	10.20	10	¼
All QJ	HL9419	15.10	10	¼
All BQD, CQD	BQDPLD	18.40	1	⅝
NGG	HPLG	17.90	1	¼
EB, 1- thru 3-pole	HPLEB	11.20	1	⅝
EG, 3- and 4-pole only	HPLE	15.60	1	¼
All ED	ED2HPL	16.00	1	¼
All FD	FD6PL1	15.00	1	¼
All JD, LD, LMD	JD6HPL	24.00	1	¼
All MD, ND, PD, RD	MN6PLD	62.00	1	¼
STD	STDPLD■	131.00	1	1

### Filler Plates

BQ, BQH, HBQ	QF3	2.80	1	¼
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### Handle Blocking Devices

For holding breaker in "ON" or "OFF" position. Not a lockout/tagout device.

BL, BLH, HBL, BQXD, BQ, BQH, HBQ	ECQL1	97.00 <sup>Ⓞ</sup>	10	¼
QJ2, QJH2, QJ2H, HQJ2H	QJHS1	13.40 <sup>Ⓞ</sup>	25	1
All BQD, CQD, NGG, NGB	BQDHBD	10.60	1	¼
EG	HBDE	15.60	1	¼
All ED	E2HBL	16.00	1	¼
All FD	FD6HB1	18.40	1	½
All JD, LD, LMD	JD6HBL	22.00	1	½
All MD, ND, PD, RD	MN6BL	62.00	1	½

### Handle Extensions

For replacement. One extension shipped with breaker.

All MD, ND, PD, RD	EX11	109.00	1	2
STD	EXSTD■	137.00		

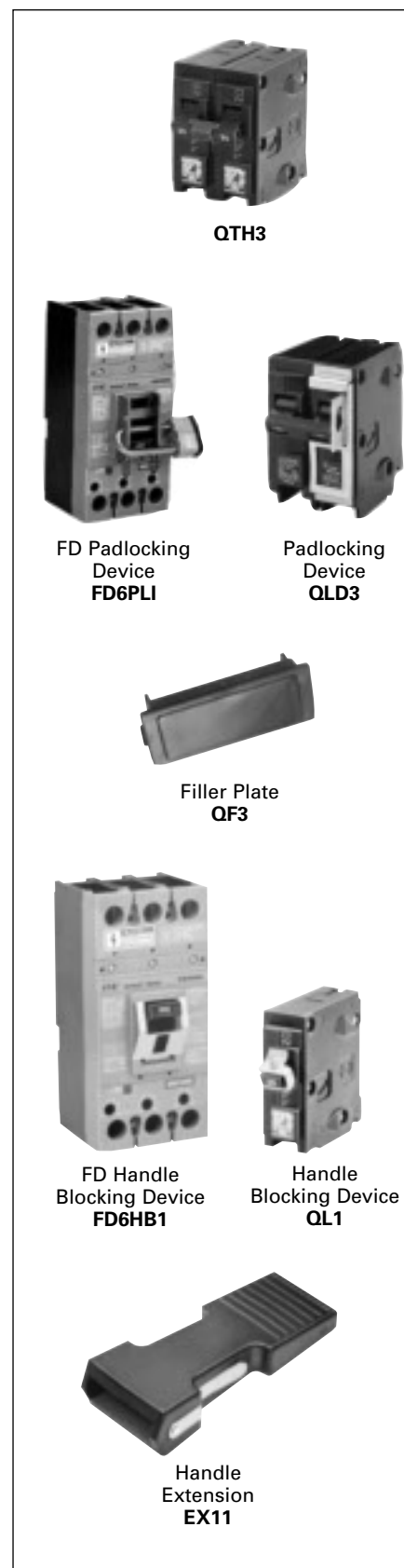
### Terminal Shields

Breaker Type	Poles	Catalog Number	List Price \$ each	Standard Package
NGG	3	TSSG3A	28.00	1

■ Built to order. Allow 2-3 weeks for delivery.

Ⓞ Sold only in standard package quantities.

CSO = Consult Sales Office for pricing.



# Molded Case Circuit Breakers

## External Accessories

## Selection

### Mounting Clips

For Use With Breaker Frame(s)	Number of Poles	Catalog Number	List Price \$ each	Standard Package	Wt Lb Std Pkg
BQ, BQH	1	MB120	8.50	20 <sup>⑥</sup>	¼

### Face Mounting Plates

GFCI	1	FP9558	14.50	10 <sup>⑥</sup>	½
BQ, BQH, BQXD	1	FP9508	13.40	10 <sup>⑥</sup>	½
	2	FP9555	17.00	10 <sup>⑥</sup>	1
	3	FP9556	18.40	10 <sup>⑥</sup>	1½
CQD, CQD6	1	CQDFMB1	28.00	1	¼
	2	CQDFMB2■	31.50	1	¼
	3	CQDFMB3■	35.00	1	¼
NGG	1	FMPG1	27.00	1	¼
	2	FMPG2	29.50	1	¼
	3	FMPG3	33.50	1	¼

### Shallow Mounting Brackets

BQ, BQH	1-6	SMB6R	5.30	30 <sup>⑦</sup>	1½
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### Back Mounting Plates

All QP 1 and 2-pole	1, 2	I0204ML1125	31.50	10	¼
All QP 3-pole	3	I0303ML3100	59.00	10	¼
BQ, BQH, BQXD	2	BR2	17.00	10 <sup>⑧</sup>	¼
	3	BR3	17.00	10 <sup>⑧</sup>	¼
	4	BR4	17.00	10 <sup>⑧</sup>	¼
ED2, ED4, ED6, HED4, HED6	1	E2BMB	14.20	1	¼

### Mounting Screw Kits

CQD, CQD6		CQDSMK <sup>①</sup>	17.70	1	1¼
NGG		MSKG4 <sup>①</sup>	3.90	1	¼
All QJ		MSQJ <sup>①</sup>	4.40	1	1
All ED (CED6 requires 2 kits)		MSE6 <sup>①</sup>	4.40	1	¼
		MSE6100 <sup>②</sup>	1.10	100 <sup>③</sup>	1
All FD (CFD6 requires 2 kits)		MSF6 <sup>①</sup>	4.40	1	¼
		MSF650 <sup>③</sup>	1.10	50 <sup>③</sup>	1
All EG 1-pole		MSKE1	3.90	—	—
All EG 2-pole		MSKE2	5.00	—	—
All EG 3 or 4-pole		MSKE4	6.20	—	—
All JD, LD		MSJ6 <sup>①</sup>	14.20	1	¼
All LMD		MSLMD	24.00	1	¼
All MD, ND,		MSMN	24.00	1	¼
All PD, RD		MSPR6	57.00	1	2

### "MI" Mechanical Interlocks

For Use With Breaker Type(s)	Panel <sup>®</sup> Mounted	Plug-in Mounted	List Price \$ each	Standard Package	Wt Lb Std Pkg
BQ	—	ECQML12	299.00	10 <sup>⑥</sup>	¼
All EG (Sliding Bar)	HSBE	—	553.00	1	—
All QJ	CSO	—	—	—	1
All FD	MI5444	MI5444	604.00	Complete with two breakers	—
All JD, LD	MI5413 <sup>④</sup>	—	604.00	1	1
All LMD	MI5406 <sup>⑤</sup> ■	—	604.00	1	1
All MD	MI5404 <sup>⑤</sup> ■	—	604.00	1	3
All ND	MI5404 <sup>⑤</sup> ■	—	604.00	1	3
All PD, RD	MI5405 <sup>⑤</sup> ▲	—	694.00	—	—
STD	STDMIF32▲	—	4036.00	—	—

■ Built to order. Allow 2-3 weeks for delivery.

▲ Built to order. Allow 6-8 weeks for delivery.

④ Kit consists of 4 screws and washers.

⑤ Consists of 1 screw and washers (order 100).

⑥ Consists of 1 screw and washers (order 50).

⑦ With mechanical interlock in place, no accessory can be installed into circuit breaker right pole.

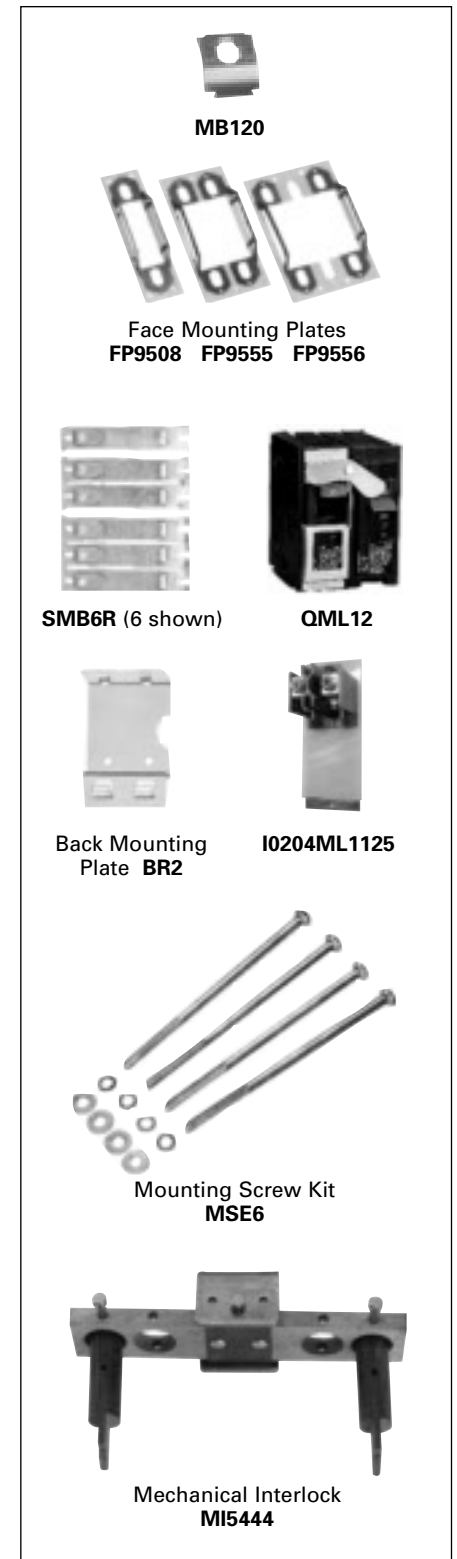
⑧ Addition of the mechanical interlock will prevent accessory installation in the left pole.

⑨ Sold only in standard package quantities. Multiply List Price Each times package quantity for full price.

⑩ Each package contains 5 strips of 6 each. Each strip can be broken at perforations for 1, 2 or 3-pole use.

⑪ Mechanical interlock is not designed for use within Siemens panelboards.

CSO = Consult Sales Office for pricing.



# Molded Case Circuit Breakers

## External Accessories

### Selection

### Rotary Door Mounted Operating Handles

Types 1, 3, 3R, 12, 4 4X

For Use With Breaker Frames	Complete Mechanism			Handle Only		Breaker Operator		Shaft Only		
	Standard Depth	Variable Depth	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Length (inches)	Catalog Number	List Price \$
EG	RHVE64X	RHVE124X	225.00	—	—	—	—	—	—	—
ED <sup>①</sup>	CRHOESD	CRHOEVD	159.00	CRHOH <sup>③</sup>	51.00	RHOEBO	76.00	2	RHOSSD	31.50
FD	CRHOFSD	CRHOFVD	213.00			RHOFBO	131.00	12	RHOSVD	31.50
JD, LD	CRHOJSD	CRHOJVD	295.00			RHOJBO	212.00	16	RHOSXD	31.50
LMD	CRHOLMSD	CRHOLMVD	295.00			RHOLMBO	212.00	—	—	—
MD, ND PD, RD	RHONSD	RHONVD	452.00	RHOH	116.00	RHONBO <sup>④</sup>	239.00	3 12 24	RHONSSD▲ RHONSVD RHONSXD	97.00 97.00 127.00

### Rotary Door Mounted Operating Handles

Types 1 & 12

For Use With Breaker Frames	Standard Depth		Variable Depth		Handle and Shaft		Breaker Operator	
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
CQD, NGG	—	—	RHOCQVD	145.00	RHOH62	55.00	CQDOP	90.00
ED	D11CEU1	160.00	D11CEU2	183.00	—	—	—	—
FD	D11CFU1▲	198.00	D11CFU2	239.00	—	—	—	—
JD, LD	—	—	D11CJU2	339.00	—	—	—	—

For CQD and NGG red emergency handle, order assembly RHOCQVDE (includes handle and operator). ▲  
For CQD and NGG in a NEMA 3R enclosure, order CQDOP34 operator (\$90.00), RHOH handle and RHOSVD shaft.  
For CQD and NGG in a NEMA 4 or 4X enclosure, order CQDOP34 operator, RHOH4 handle and RHOSVD shaft.

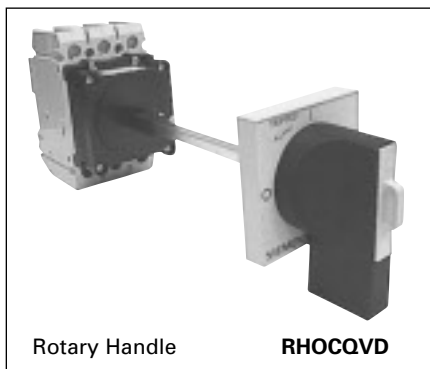
### Through Door Mounted Operating Handles<sup>②</sup>

Types 1 & 12

For Use With Breaker Frames	Standard Depth		Variable Depth	
	Catalog Number	List Price \$	Catalog Number	List Price \$
CQD, NGG	FMHOS	90.00	—	—
QJ	OH9498■	139.00	VH9499	218.00
EG (3 & 4-Pole only)	RHFESD	155.00	—	—
EG (red handle)	RHFESDEM	155.00	—	—
ED	E2RH1	155.00	E2RHV9	221.00
FD	F6RH1	155.00	F6RHV9	221.00

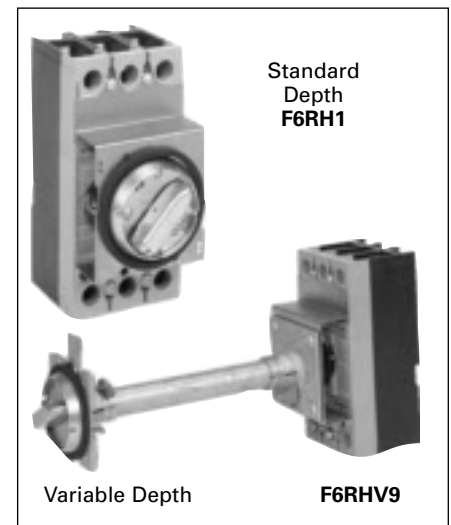
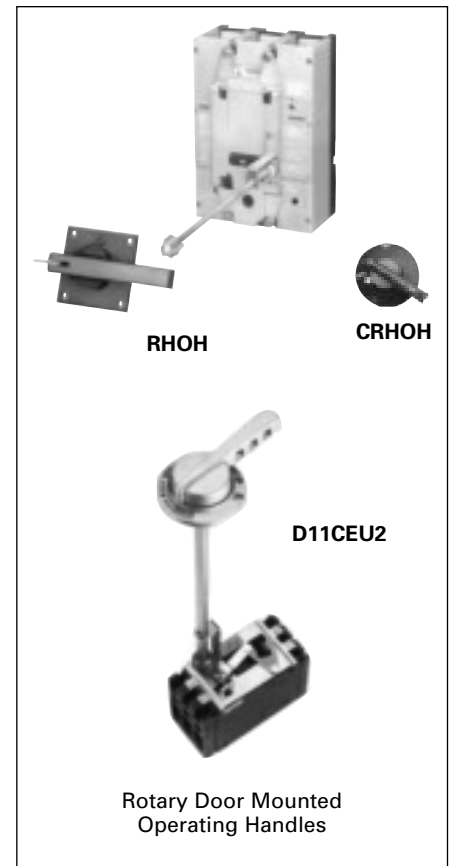
### Door Latch Kits

Type	Catalog Number Right Hand	List Price \$	Catalog Number Left Hand	List Price \$
2 point latch	DKR2	338.00	DKL2■	338.00
3 point latch	DKR3	377.00	DKL3■	377.00



- Built to order. Allow 2-3 weeks for delivery.
- ▲ Built to order. Allow 6-8 weeks for delivery.
- ① For use on 3-pole ED frame only.

- ② Meets the requirements of NFPA 79, section 5.3.3.1 for locking external operator disconnecting devices.
- ③ For 3 or 3R, order shaft and breaker operator as shown, and handle RHOH. For 4 & 4X, order handle RHOH4. List Price \$150.00. Consult sales office for additional EG operator shaft lengths.



- ④ For extended shaft support order catalog number RHONSB2.

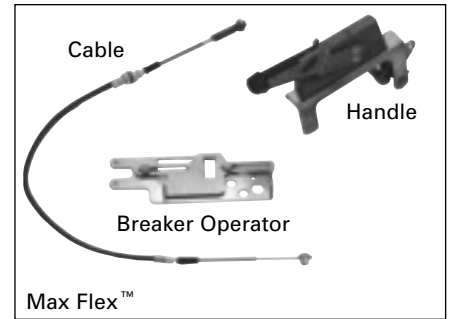
# Molded Case Circuit Breakers

## External Accessories

### Selection

### Max-Flex™, Flange Mounted Variable Depth Operators<sup>③</sup>

Frames	NEMA Type	Complete Kit		Handle Only		Breaker Operator		36" Cable	
		Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
EG	1, 3 (R), 12	MFKE3 <sup>②</sup>	528.00	—	—	—	—	—	—
	4 (x)	MFKE4X3	606.00	—	—	—	—	—	—
ED	1, 3 (R), 12	FHOE036 <sup>①</sup>	630.00	FHOH	315.00	FHOEBO <sup>①</sup>	161.00	FHOEC036	153.00
	4 (x)	—	—	FHOH4	432.00	—	—	—	—
FD	1, 3 (R), 12	FHOF036	699.00	FHOH	315.00	FHOFBO	222.00	FHOFC036	161.00
	4 (x)	—	—	FHOH4	432.00	—	—	—	—
JD, LD, SJD, SLD	1, 3 (R), 12	FHOJ036	742.00	FHOH	315.00	FHOJBO	249.00	FHOJC036	177.00
	4 (x)	—	—	FHOH4	432.00	—	—	—	—
LMD	1, 3 (R), 12	FHOLM036	741.00	FHOH	315.00	FHOLMBO	249.00	FHOJC036	177.00
	4 (x)	—	—	FHOH4	432.00	—	—	—	—
MD, ND, PD, RD, SMD, SND, SPD	1, 3 (R), 12	FHON048	958.00	FHOHN	470.00	FHONBO	251.00	FHONC048 <sup>②</sup>	237.00
	4 (x)	—	—	FHOHN4	630.00	—	—	—	—



Max-Flex™ handles are available with solid black handles instead of the customary "red for on" flange handle. These are preferred for use in IEC markets, where red handles have specific meaning. Order components separately, appending the letter "i" to the catalog number (e.g. FHOHI).

### Alternate Length Cable Only

Inches	ED		FD		JD/LD/LMD		MD/ND/PD/RD	
	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
48	FHOEC048	182.00	FHOFC048	192.00	FHOJC048	209.00	FHONC048	237.00
60	FHOEC060	203.00	FHOFC060	217.00	FHOJC060	239.00	FHONC060	275.00
72	FHOEC072	224.00	FHOFC072	239.00	FHOJC072	275.00	FHONC072	320.00
84	FHOEC084▲	249.00	FHOFC084▲	264.00	FHOJC084▲	277.00	FHONC084▲	337.00
96	FHOEC096	275.00	FHOFC096	287.00	FHOJC096	376.00	FHONC096	401.00
120	FHOEC120▲	376.00	FHOFC120	376.00	FHOJC120▲	408.00	FHONC120▲	437.00
144	FHOEC144▲	417.00	FHOFC144▲	417.00	FHOJC144▲	424.00	FHONC144▲	588.00

### Handle Auxiliary Switch

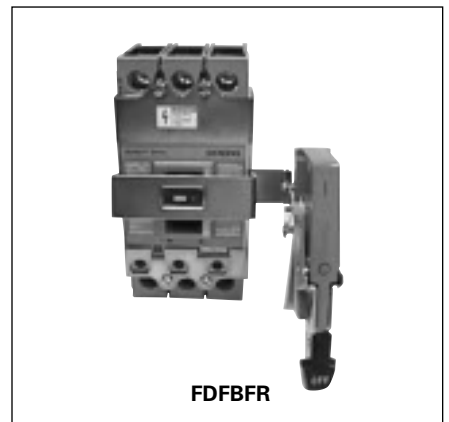
For use with Max-Flex and Rotary Door operators (FHOH and RHOH). 1 NO and 1 NC contact (Form C).

For Use With	Catalog Number	List Price \$
ED, FD, JD, LD, LMD, ND, PD, RD, SD, Max Flex	HAS1	187.00

### Fixed Depth Flange Mounting

Frames	Minimum Enclosure Depth	NEMA Type	Left Hand Mount		Right Hand Mount	
			Catalog Number	List Price \$	Catalog Number	List Price \$
ED	6.44	1, 3R, 12	FDLBEL▲	275.00	FDLBER▲	275.00
		4, 4X	FDLBEL4▲	368.00	FDLBER4▲	368.00
FD	6.44	1, 3R, 12	FDLFL▲	294.00	FDLFR▲	294.00
		4, 4X	FDLFL4▲	391.00	FDLFR4▲	391.00

Max-Flex™ handles are available with solid black handles instead of the customary "Red for On" flange handle. These are preferred for use in IEC markets, where red handles have specific meaning. Order components separately, appending the letter "i" to the catalog number (e.g. FHOHI).



▲ Built to order. Allow 6-8 weeks for delivery.

① For 1- or 2-pole breaker order FHOE036 complete kit or FHOEBO breaker operator only. Use MFHM3R handle.

② 48 inch cable is standard length for M through R frame Max-Flex operators.

③ Meets requirements of NFPA 79, section 5.3.3.1 for locking external operator disconnecting devices

④ Consult sales office for additional cable lengths for EG Flex Shaft Operators. For 3-Pole only.

# Molded Case Circuit Breakers

## External Accessories

## Selection/Dimensions

### Telemand® Motor Operator

Breaker Frame	AC Voltage	Hinged to Open Down	List Price \$
ED except CED	120	MOE6120	3375.00
	240	MOE6240▲	3672.00

ED motor operator opens downward.

Breaker Frame	DC Voltage	Hinged to Open Right	List Price \$	AC Voltage	Hinged to Open Right	List Price \$
FD	24	MOF6024DC▲	3549.00	120	MOF6120	3447.00
	48	MOF6048DC▲	3549.00	240	MOF6240	3875.00
	125	MOF6125DC▲	3686.00			
JD, LD	24	MOJ6024DC▲	4507.00	120	MOJ6120	4460.00
	48	MOJ6048DC▲	4507.00	240	MOJ6240	4460.00
	125	MOJ6125DC▲	4643.00			
LMD	24	MOLMD6024DC▲	4507.00	120	MOLMD6120	4460.00
	48	MOLMD6048DC▲	4507.00	240	MOLMD6240	4460.00
	125	MOLMD6125DC▲	4643.00			
MD, ND, PD, RD	—	—	—	120	MOMN6120	5038.00
	—	—	—	240	MOMN6240	5038.00

To order FD through RD motor operators with Left side hinges, add "L" to catalog number (e.g. MOF6120L). List prices are the same.▲

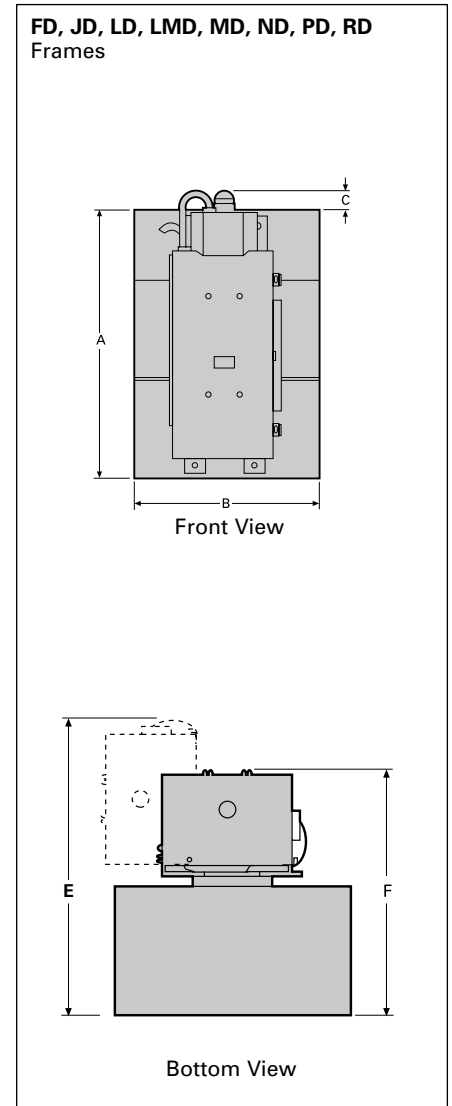


Telemand Motor Operator

### FD, JD, LD, LMD, MD, ND, PD, RD Frames

### Dimensions

Frame	A	B	C	D	E	F
ED	7.04	4.31	—	4.31	13.84	8.84
FD	9.50	4.55	1.60	6.84	9.70	7.58
JD, LD, LMD	11.00	7.50	0.79	8.34	9.85	7.74
MD, ND, PD, RD	16.00	9.00	—	9.83	13.13	10.13



### Operating Currents

Catalog Number	On			Off			Reset (Amps)
	In-Rush (Amps)	Running (Amps)	Time (msec)	In-Rush (Amps)	Running (Amps)	Time (msec)	
MOE6120	10.25	2.3	550	10	2.3	400	2.3
MOE6240	5.2	1.1	500	5	1	330	1.1
MOF6120/L	13.6	5.5	200	13.6	5.5	175	5.5
MOF6240/L	7.6	3.5	200	7.6	3.5	185	3.5
MOLMD6120/L	13.6	6	210	13.6	6	185	6
MOJ6120/L	13.6	6	210	13.6	6	185	6
MOJ6240/L	7.6	3.5	217	7.6	3.5	185	3.5
MOMN6120/L	30.2	13.2	240	30.2	13.2	210	13.2
MOMN6240/L	14.7	6	260	14.7	6	230	6

For inches / millimeters conversion, see Application Data section.

▲ Built to order. Allow 6–8 weeks for delivery.

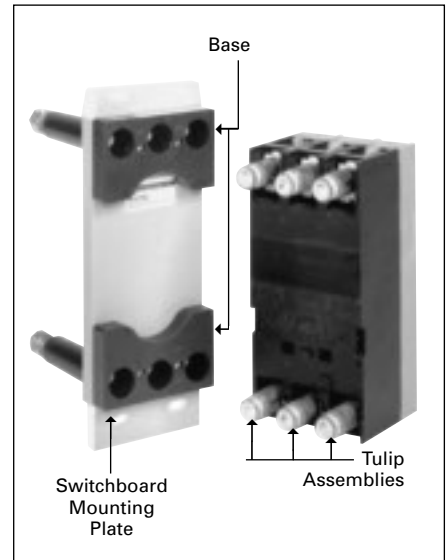
# Molded Case Circuit Breakers

## External Accessories

Selection

Plug-In Mounting Assemblies, Including Base and Tulip Assemblies

For Use With Breaker Frames	Poles	Line Side		Load Side		Steel Switchboard Mounting Plate <sup>®</sup> Catalog Number
		Catalog Number <sup>®</sup>	List Price \$	Catalog Number <sup>®</sup>	List Price \$	
EG	3	PCBERC3 <sup>®</sup>	352.00	—	—	—
	4	PCBERC4 <sup>®</sup>	402.00	—	—	
All ED except CED	2	PC2637▲	109.00	PC2638▲	109.00	PL2616
	3	PC2657	176.00	PC2658	176.00	
CED	2	PC2637▲	109.00	PC2638▲	109.00	PL2617
	3	PC2657	176.00	PC2658	176.00	
All FD except CFD	2	PC4753▲	265.00	PC4753▲	265.00	PL4762
	3	PC4754	345.00	PC4754	345.00	
CFD	2	PC4753▲	265.00	PC4753▲	265.00	PL4763
	3	PC4754	345.00	PC4754	345.00	
All JD except CJD	2	PC5777▲	356.00	PC5777▲	356.00	PL5796
	3	PC5778	589.00	PC5778	589.00	
Kit CJD, SCJD	3	PCCJD	640.00	PCCJD	640.00	PL5797
All LD except CLD	2	PC5660▲	667.00	PC5660▲	667.00	PL5680
	3	PC5661	933.00	PC5661	933.00	
Kit CLD, SCLD	3	PCCLD	984.00	PCCLD	984.00	PL5797
All MD	2	PC5662▲	1227.00	PC5662▲	1227.00	PL9698
	3	PC5663	1499.00	PC5663	1499.00	
All ND	2	PC5664 <sup>®</sup> ▲	1696.00	PC5664 <sup>®</sup> ▲	1696.00	PL9699
	3	PC5666 <sup>®</sup>	1955.00	PC5666 <sup>®</sup>	1955.00	



Tulip Assemblies Separately

For Frame	2-Pole		3-Pole	
	Catalog Number	List Price \$	Catalog Number	List Price \$
ED	TCE2▲	137.00	TCE3▲	206.00
FD	TCF2▲	206.00	TCF3▲	308.00
JD	TCJ2▲	238.00	TCJ3▲	345.00
LD	TCL2▲	274.00	TCL3▲	410.00
MD	TCM2▲	308.00	TCM3▲	457.00
ND	TCN2▲	410.00	TCN3▲	479.00

Rear-Connecting Studs

For Use With Breaker Frames	Ampere Rating	Description	Extension Behind Breaker (inches)	Line Side		Load Side	
				Catalog Number	List Price \$ <sup>®</sup>	Catalog Number	List Price \$ <sup>®</sup>
All EG	125	Short	3.60	RTLESR	43.00	RTLESR	43.00
		Long	6.00	RTLELR	51.00	RTLELR	51.00
All ED	100	Line Side (Short)	2.38	RS2643 <sup>®</sup> ▲	45.00	—	—
		Load Side (Short)	2.38	—	—	RS2644 <sup>®</sup> ▲	45.00
		Line Side (Long)	4.88	RS2641 <sup>®</sup> ▲	54.00	—	—
		Load Side (Long)	4.88	—	—	RS2642 <sup>®</sup> ▲	54.00
All FD	250	Short	3.12	RS4756 <sup>®</sup> ▲	65.00	RS4756 <sup>®</sup> ▲	65.00
		Long	7.06	RS4755 <sup>®</sup> ▲	102.00	RS4755 <sup>®</sup> ▲	102.00
All JD	400	Short	5.85	RS5774▲	180.00	RS5774▲	180.00
		Long	11.20	RS5773▲	180.00	RS5773▲	180.00
All LD	600	Short	5.85	RS5784▲	214.00	RS5784▲	214.00
		Long	11.20	RS5783▲	203.00	RS5783▲	203.00
CJD, SCJD CLD, SCLD	Add required shield kit.					CLRSJL3	51.00
LM(X)D6, HLM(X)D6	800	Short	5.85	RS5788▲	332.00	RS5788▲	332.00
		Long	11.20	RS5787▲	313.00	RS5787▲	313.00
All MD, ND	1200	Short	5.50	RS5786▲	258.00	RS5786▲	258.00
		Long	8.00	RS5785▲	326.00	RS5785▲	326.00

▲ Built to order. Allow 6–8 weeks for delivery.

® Furnished at no extra charge when ordered with plug-in mounting assembly.

® Each piece catalog number consists of (1) mounting block assembly and required tulip assemblies (2) for 2-pole, (3) for 3-pole

® For vertical bus mounting — for horizontal, substitute PC5665 for PC5664 and PC5667 for PC5666.

® Price includes one current stud, insulating tube, stud nuts and terminal shields, when required.

® For proper electrical clearance, studs must alternate between short and long stud lengths on circuit breaker poles (e.g. SLSLSL or LSLLSL).

® Plug-in assembly for EG breakers include line and load side in one assembly.

