Record Plus

Thermal Magnetic Trip Units

FE frame

The breaker is built up of a frame and an interchangeable trip unit. The interchangeability also includes the electronic trip unit and the nonautomatic switch variant. The FE frame size trip units are designed to distinguish between an overload or short-circuit and are equipped with indicating flags. This patented GE system saves down time by

The following versions are available:

LTM (Line thermal magnetic protection)

Available in the FE160N, H & L and the FE250V breaker types.

Has a thermal setting of 0.8 to 1 and a magnetic setting of 5 to 10 times the selected rating. Designed for the for protection of generic loads.

LTMD (Selective thermal magnetic protection)

Available in the FE160N, H & L and FE250N, H & L breaker types. A trip unit that offers selectivity with downstream devices as the Elfa Plus, FD63/160 range and the Surion motor starter. Designed for the protection of generic loads.

GTM (Generator thermal magnetic)

Available in the FE160N, H & L and FE250N, H & L breaker types. Has a thermal setting of 0.8 to 1 and a magnetic setting of 3 to 5 times the selected rating.

Suitable for generator protection and/or long cable runs where a low magnetic threshold is required.

Mag Break[™] (Magnetic only)

Available in the FE160N, H & L FE250N, H & L breaker types. A trip unit designed to offer shortcircuit protection only and specifically suited for motor protection in coordination with a contactor and a thermal relay (EN 60947-4). Has a settable magnetic threshold of 10 to 15 x In.

Y (Non automatic - switch disconnector)

A 'dummy' trip unit available in a 160A and 250A variant. Has no protection elements. Designed as switch disconnector

enabling the user to identify an overload fault and, in accordance with the HD 384 standards to immediately reclose after an overload event. Each trip unit is equipped with an interchange prevention interlock that does not allow one to incorrectly place a 200 or 250A trip unit in a 160A frame size.









В

rip units

					_		_							
		FE frame	•				E	lectro-m	echanical	trip unit	overviev	N		
						Thermal Ir			Magnetic Im			Neutral protection		
						pick-up band 1.05 ÷ 1.3 lr			pick-up band ± 20% Im					
					[A]		min [A]	max [A]		min [A]	max [A]	4P4T	4P 3.5T	4P3T
LTM & LTMD		н	L	FE160	25	0.8÷1ln 0.8÷1ln	20	25	Fixed 8 x ln adjustable 5÷10 ln	20)0	=lr		
	N				32		26	32		256		=lr		
					40		32	40		320		=lr		
					50		40	50		400		=lr		
					63		50	63		50)4	=lr	=lr/2	tected
					80		64	80		400	800	=lr	=lr/2	
					100		80	100		500	1000	=lr	=lr/2	D.C.
					125		100	125		625	1250	=lr	=lr/2	t T
					160		128	160		800	1600	=lr	=lr/2	_
				FE250	125		100	125		625	1250	=lr	=lr/2	
					160		128	160		1000	1600	=Ir	$\frac{= r/2 }{= r/2 }$	
					200		160	200		1000	2000	=11		
GTM	N	Н	L	FE160	250	0.8÷1ln	200	250	Fixed 4 x ln adjustable 3-5 ln	1250	2500	=11	=11/2	
					40 50			40 50		200		=11 _lr		
					62		50	62		200		-11 _lr	-lr/2	
					100		80	100		<u></u>)/)/)	—II —Ir	-lr/2	
					125		100	125		375	625	—!! —!r	-lr/2	
					160		128	160		480	800	—Ir	=lr/2	
				FE250	125	0.8÷1ln	100	125		375	625	 lr	=lr/2	
					160		128	160		480	800	 =lr	=lr/2	
					200		160	200		700	1000	=lr	=lr/2	
					250		200	250		750	1250	=lr	=lr/2	
Mag	N	Н	L	FE160	3					21	45			
					7					49	105			
					12.5			adjustable	88	188				
					20				7÷15ln	140	300			-
					30			tion	210	450			ctec	
					50	No	protect			350 🥑	750			otec
Break™				FE250	100			.011	adjustable 10÷15ln	1000	1500			pro
Dicuk					125					1250	1875			ot
					160					1600	2400			-
					160					1600	2400			
					200					2000	3000			
				FEAR	250	250					3750			
Y	Y FE160			160				No	protecti	ion				
				FE250	250									
Y		Ŷ		FE250	250				No	protecti	ion			

FE160 and FE250 breakers - trin unit overview (electromechanical)

Available LTMD versions marked in yellow



Record Plus™

Time Current Curves FE frame











В

Time Current Curves







