



- Safe switching for protecting Ex e motors
- Release: Non-adjustable fast short-circuit release, adjustable thermal overcurrent release
- Undervoltage releases and shunt trips are also options
- Optional auxiliary contacts: 1 NC + 1 NO or 2 NC + 2 NO

E9

MY R. STAHL 8523A



R. STAHL Series 8523/8 motor protection moulded case circuit breakers protect and switch Ex e motors with a non-adjustable fast short-circuit release and a thermal overcurrent release adjustable at the switch. The switch is actuated using a rotary actuator and the switching position is always easy to see. You can set different current ranges.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table					
Release		Shunt trip			
Current-setting range	Auxiliary contacts	AC release voltage	Product Type	Art. No.	Weight
1.60-2.5 A	1 NC + 1 NO	240 V	8523/82-07-222	217752	1.9 kg
2.50-4 A	1 NC + 1 NO	240 V	8523/82-08-222	217753	1.9 kg
4.00-6.3 A	1 NC + 1 NO	60 V	8523/82-09-221	217754	1.9 kg
Release		Undervoltage release			
Current-setting range	Auxiliary contacts	AC release voltage	Product Type	Art. No.	Weight
0.10-0.16 A	1 NC + 1 NO	230 V	8523/82-01-126	219007	1.9 kg
		400 V	8523/82-01-127	219008	1.9 kg
		500 V	8523/82-01-129	219009	1.9 kg
	-	230 V	8523/81-01-106	218978	1.42 kg
		400 V	8523/81-01-107	218979	1.42 kg
		500 V	8523/81-01-109	218980	1.42 kg
0.16-0.25 A	1 NC + 1 NO	230 V	8523/82-02-126	219010	1.9 kg
		400 V	8523/82-02-127	219011	1.9 kg
		500 V	8523/82-02-129	219012	1.9 kg
	-	230 V	8523/81-02-106	218982	1.42 kg
		400 V	8523/81-02-107	218983	1.42 kg
		500 V	8523/81-02-109	218984	1.42 kg

Selection Table

Release		Undervoltage release				
Current-setting range	Auxiliary contacts	AC release voltage	Product Type	Art. No.	Weight	
0.25-0.4 A	1 NC + 1 NO	230 V	8523/82-03-126	219013	1.9 kg	
		400 V	8523/82-03-127	217727	1.9 kg	
		500 V	8523/82-03-129	219014	1.9 kg	
	-	230 V	8523/81-03-106	218985	1.42 kg	
		400 V	8523/81-03-107	218986	1.42 kg	
		500 V	8523/81-03-109	218987	1.42 kg	
	0.40-0.63 A	1 NC + 1 NO	230 V	8523/82-04-126	217728	1.9 kg
			400 V	8523/82-04-127	219015	1.9 kg
			500 V	8523/82-04-129	219016	1.9 kg
-		230 V	8523/81-04-106	218988	1.42 kg	
		400 V	8523/81-04-107	218989	1.42 kg	
		415 V	8523/81-04-108	217698	1.42 kg	
500 V			8523/81-04-109	218990	1.42 kg	
		1 NC + 1 NO	230 V	8523/82-05-126	219017	1.9 kg
			400 V	8523/82-05-127	219018	1.9 kg
500 V	8523/82-05-129		219019	1.9 kg		
0.63-1 A	-	110 V	8523/81-05-105	217699	1.42 kg	
		230 V	8523/81-05-106	217700	1.42 kg	
		400 V	8523/81-05-107	218991	1.42 kg	
	500 V	8523/81-05-109	218992	1.42 kg		
	1.00-1.6 A	1 NC + 1 NO	230 V	8523/82-06-126	217729	1.9 kg
			400 V	8523/82-06-127	217730	1.9 kg
500 V			8523/82-06-129	219020	1.9 kg	
-		230 V	8523/81-06-106	218993	1.42 kg	
		400 V	8523/81-06-107	217701	1.42 kg	
		500 V	8523/81-06-109	218994	1.42 kg	
1.60-2.5 A	1 NC + 1 NO	110 V	8523/82-07-125	217731	1.9 kg	
		230 V	8523/82-07-126	219021	1.9 kg	
		400 V	8523/82-07-127	217732	1.9 kg	
	500 V		8523/82-07-129	219022	1.9 kg	
		2 NC + 2 NO	230 V	8523/82-07-146	217749	1.9 kg
			-	230 V	8523/81-07-106	217702
	400 V			8523/81-07-107	217703	1.42 kg
	500 V	8523/81-07-109		218995	1.42 kg	
	2.50-4 A	1 NC + 1 NO	230 V	8523/82-08-126	219023	1.9 kg
400 V			8523/82-08-127	217733	1.9 kg	
500 V			8523/82-08-129	219024	1.9 kg	
-		230 V	8523/81-08-106	217704	1.42 kg	
		400 V	8523/81-08-107	218996	1.42 kg	
		500 V	8523/81-08-109	217705	1.42 kg	

Moulded case circuit breakers for motor protection

Series 8523/8

STAHL

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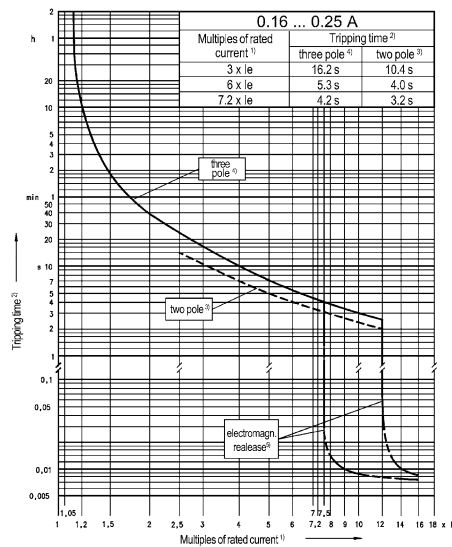
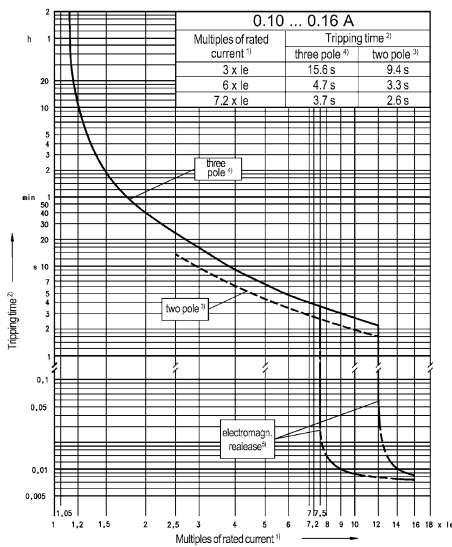
Selection Table								
Release		Undervoltage release						
Current-setting range	Auxiliary contacts	AC release voltage	Product Type	Art. No.	Weight			
4.00-6.3 A	1 NC + 1 NO	230 V	8523/82-09-126	217734	1.9 kg			
		400 V	8523/82-09-127	217735	1.9 kg			
		500 V	8523/82-09-129	219025	1.9 kg			
	-	-	230 V	8523/81-09-106	217706	1.42 kg		
			400 V	8523/81-09-107	217707	1.42 kg		
			500 V	8523/81-09-109	218997	1.42 kg		
	6.30-9 A	1 NC + 1 NO	230 V	8523/82-10-126	219026	1.9 kg		
			400 V	8523/82-10-127	217736	1.9 kg		
			500 V	8523/82-10-129	219027	1.9 kg		
-		-	230 V	8523/81-10-106	217708	1.42 kg		
			400 V	8523/81-10-107	217709	1.42 kg		
			500 V	8523/81-10-109	218998	1.42 kg		
9.00-12.5 A		1 NC + 1 NO	230 V	8523/82-11-126	219028	1.9 kg		
			400 V	8523/82-11-127	219029	1.9 kg		
			500 V	8523/82-11-129	219030	1.9 kg		
	2 NC + 2 NO	-	400 V	8523/82-11-147	217750	1.9 kg		
			230 V	8523/81-11-106	218999	1.42 kg		
				8523/81-11-107	217710	1.42 kg		
	500 V	-	8523/81-11-109	219000	1.42 kg			
			12.50-16 A	1 NC + 1 NO	230 V	8523/82-12-126	217737	1.9 kg
					400 V	8523/82-12-127	217738	1.9 kg
500 V	8523/82-12-129	219031			1.9 kg			
-	-	230 V	8523/81-12-106	217711	1.42 kg			
		400 V	8523/81-12-107	219001	1.42 kg			
		500 V	8523/81-12-109	219002	1.42 kg			
16.00-20 A	1 NC + 1 NO	230 V	8523/82-13-126	219032	1.9 kg			
		400 V	8523/82-13-127	219033	1.9 kg			
		500 V	8523/82-13-129	219034	1.9 kg			
	-	-	230 V	8523/81-13-106	217712	1.42 kg		
			400 V	8523/81-13-107	217713	1.42 kg		
			500 V	8523/81-13-109	219003	1.42 kg		
	20.00-22.5 A	1 NC + 1 NO	230 V	8523/82-14-126	217751	1.9 kg		
			400 V	8523/82-14-127	219035	1.9 kg		
			500 V	8523/82-14-129	219036	1.9 kg		
-		-	230 V	8523/81-14-106	219004	1.42 kg		
			400 V	8523/81-14-107	219005	1.42 kg		
			500 V	8523/81-14-109	219006	1.42 kg		
Release		without						
Current-setting range		Auxiliary contacts	AC release voltage	Product Type	Art. No.	Weight		
0.10-0.16 A		-		8523/81-01-000	146630	1.38 kg		
0.16-0.25 A	1 NC + 1 NO		8523/82-02-020	217714	1.9 kg			
	-		8523/81-02-000	146631	1.37 kg			

Selection Table					
Release	without				
Current-setting range	Auxiliary contacts	AC release voltage	Product Type	Art. No.	Weight
0.25-0.4 A	1 NC + 1 NO		8523/82-03-020	217715	1.9 kg
	–		8523/81-03-000	146632	1.37 kg
0.40-0.63 A	1 NC + 1 NO		8523/82-04-020	217716	1.9 kg
	2 NC + 2 NO		8523/82-04-040	217739	1.9 kg
	–		8523/81-04-000	146633	1.35 kg
0.63-1 A	1 NC + 1 NO		8523/82-05-020	217717	1.9 kg
	2 NC + 2 NO		8523/82-05-040	217740	1.9 kg
	–		8523/81-05-000	146634	1.35 kg
1.00-1.6 A	1 NC + 1 NO		8523/82-06-020	217718	1.9 kg
	2 NC + 2 NO		8523/82-06-040	217741	1.9 kg
	–		8523/81-06-000	146635	1.41 kg
1.60-2.5 A	1 NC + 1 NO		8523/82-07-020	217719	1.9 kg
	2 NC + 2 NO		8523/82-07-040	217742	1.9 kg
	–		8523/81-07-000	146636	1.4 kg
2.50-4 A	1 NC + 1 NO		8523/82-08-020	217720	1.9 kg
	2 NC + 2 NO		8523/82-08-040	217743	1.9 kg
	–		8523/81-08-000	146637	1.41 kg
4.00-6.3 A	1 NC + 1 NO		8523/82-09-020	217721	1.9 kg
	2 NC + 2 NO		8523/82-09-040	217744	1.9 kg
	–		8523/81-09-000	146638	1.42 kg
6.30-9 A	1 NC + 1 NO		8523/82-10-020	217722	1.9 kg
	2 NC + 2 NO		8523/82-10-040	217745	1.9 kg
	–		8523/81-10-000	146639	1.41 kg
9.00-12.5 A	1 NC + 1 NO		8523/82-11-020	217723	1.9 kg
	2 NC + 2 NO		8523/82-11-040	217746	1.9 kg
	–		8523/81-11-000	146640	1.41 kg
12.50-16 A	1 NC + 1 NO		8523/82-12-020	217724	1.9 kg
	2 NC + 2 NO		8523/82-12-040	217747	1.9 kg
	–		8523/81-12-000	146641	1.41 kg
16.00-20 A	1 NC + 1 NO		8523/82-13-020	217725	1.9 kg
	–		8523/81-13-000	146642	1.44 kg
20.00-22.5 A	1 NC + 1 NO		8523/82-14-020	217726	1.9 kg
	2 NC + 2 NO		8523/82-14-040	217748	1.9 kg
	–		8523/81-14-000	146643	1.41 kg

Technical Data		
Variant	with auxiliary contacts	without auxiliary contacts
Explosion Protection		
IECEX gas explosion protection	Ex db eb IIC Gb	Ex db eb IIC Gb
IECEX firedamp protection	Ex db eb I Mb	Ex db eb I Mb
ATEX gas explosion protection	Ⓜ II 2 G Ex db eb IIC Gb	Ⓜ II 2 G Ex db eb IIC Gb
ATEX firedamp protection	Ⓜ I M2 Ex db eb I Mb	Ⓜ I M2 Ex db eb I Mb
Certificates	ATEX (BVS), Brazil (ULB), Canada (FM), IECEX (BVS), USA (FM) ATEX (BVS), Brazil (ULB), Canada (FM), IECEX (BVS), USA (FM)	

Technical Data		
Variant	with auxiliary contacts	without auxiliary contacts
Electrical Data		
Rated operational voltage AC	690 V	690 V
Frequency	50/60 Hz	50/60 Hz
Rated operating voltage HIKO	500 V	
Switching capacity	12.5 kW/400 V	12.5 kW/400 V
No. of poles	3	3
Ambient Conditions		
Ambient temperature	-20 °C ... +60 °C	-20 °C ... +60 °C
Mechanical Data		
Enclosure material	Epoxy resin or polyester resin	Epoxy resin or polyester resin
Connection cross section min.	1.5 mm ²	1.5 mm ²
Max. connection cross section, solid	10 mm ²	10 mm ²
Max. connection cross-section, finely stranded	10 mm ²	10 mm ²
Connection cross-section of auxiliary contact min.	0.75 mm ²	
Max. auxiliary contact connection cross-section, solid	2.5 mm ²	
Max. auxiliary contact connection cross-section, finely stranded	1.5 mm ²	
Service life, min.	10 ⁵ operating cycles	10 ⁵ operating cycles

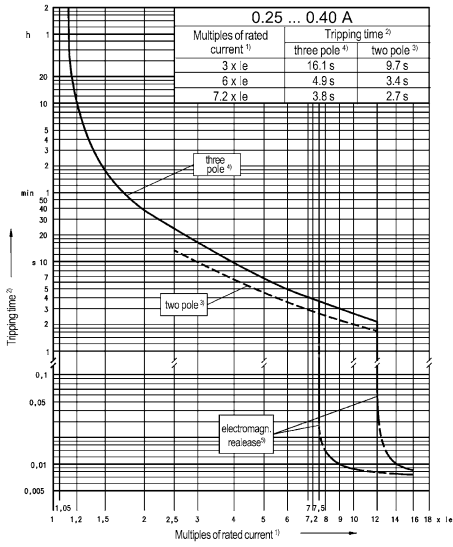
Technical Drawings – Subject to Alterations



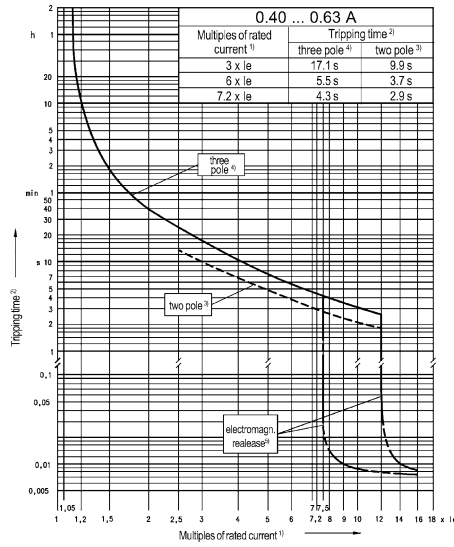
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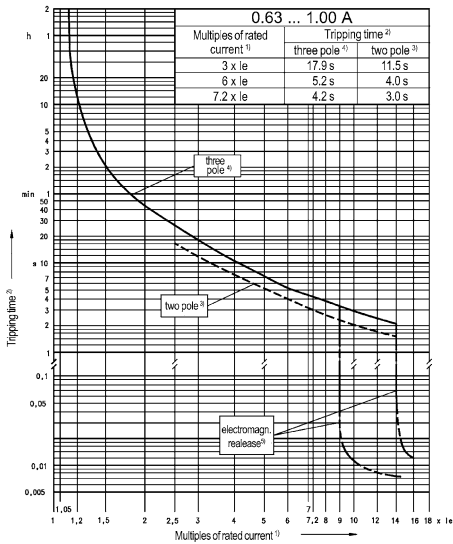
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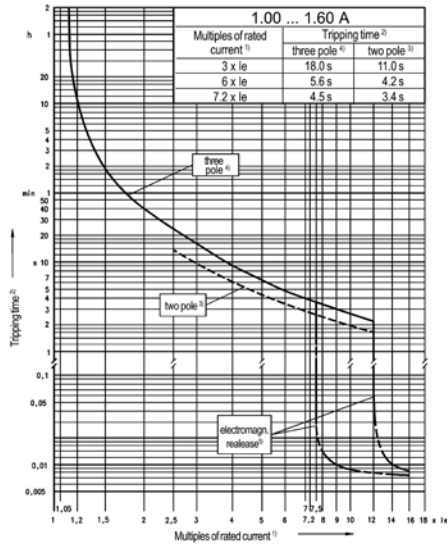
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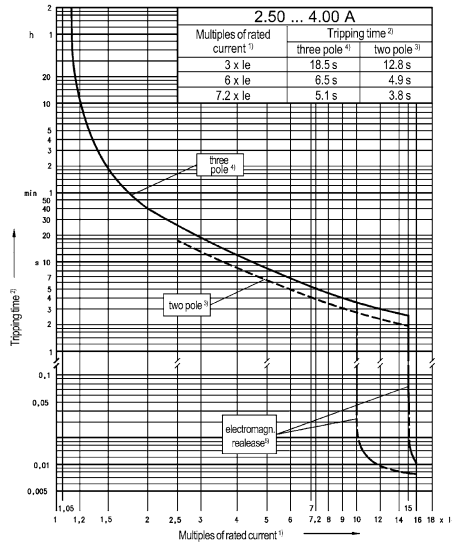
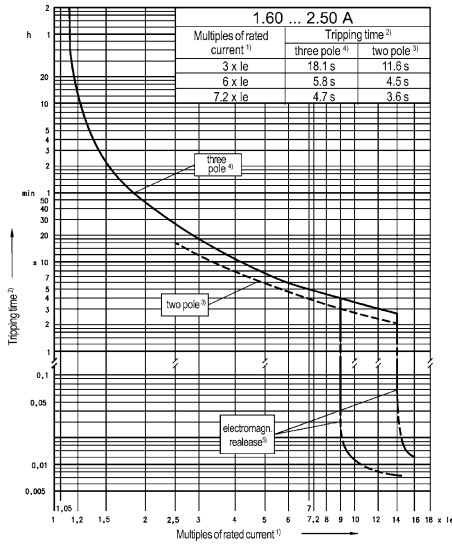
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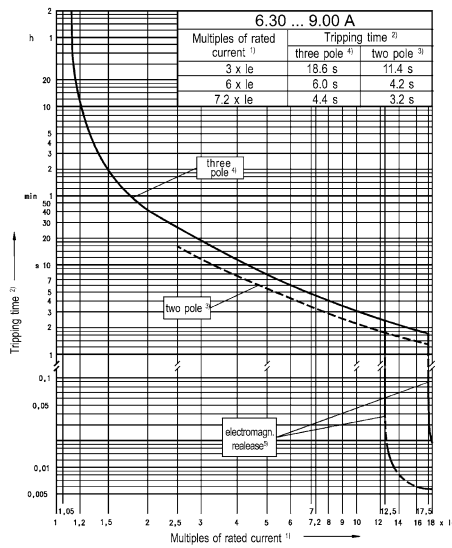
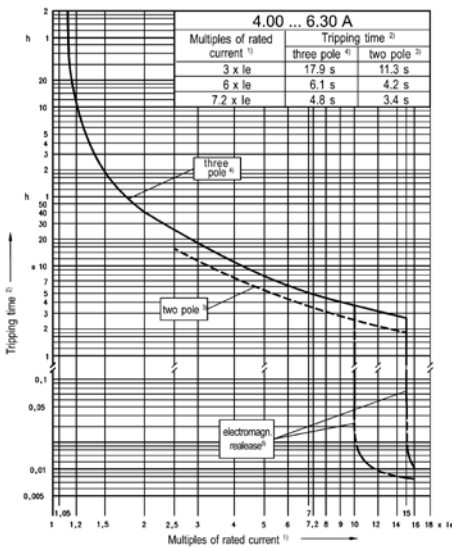


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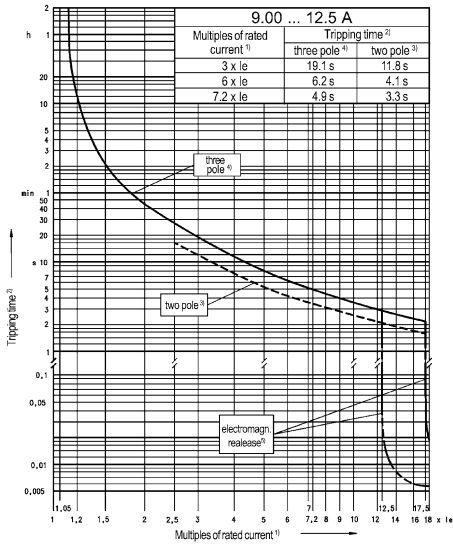
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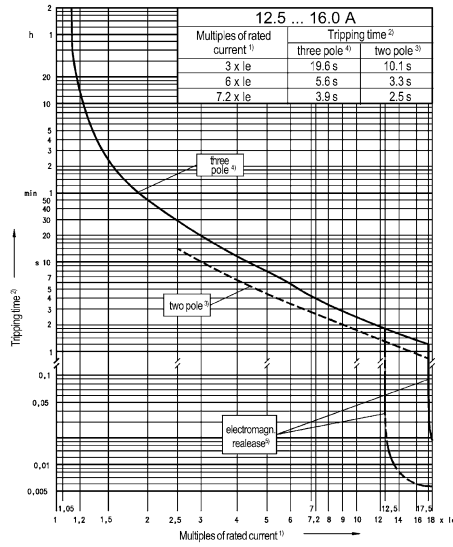


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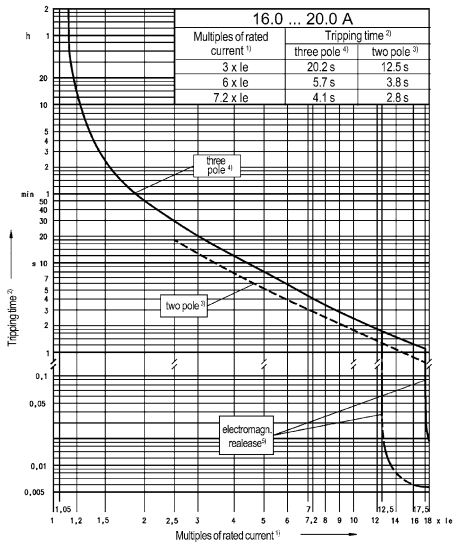
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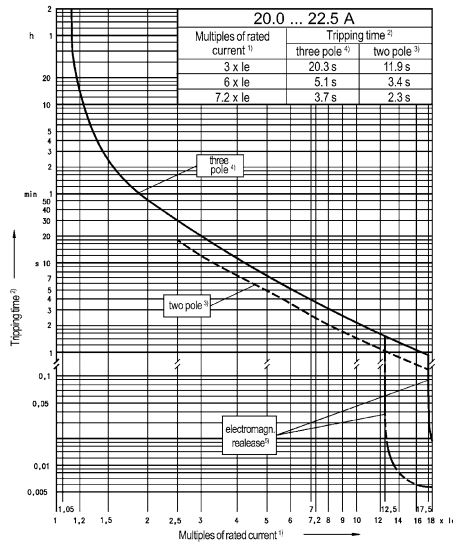
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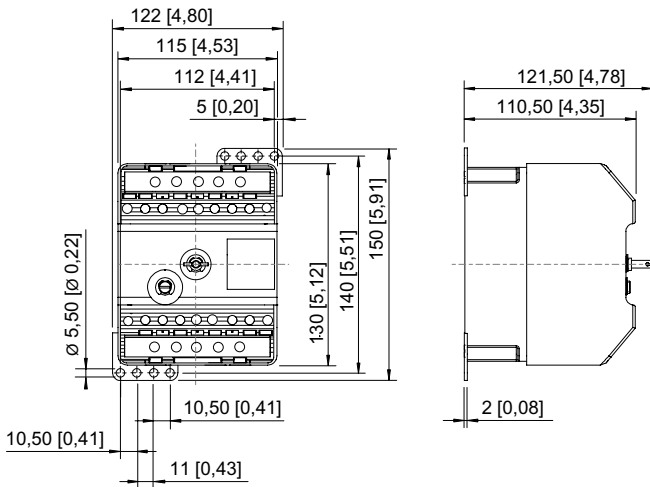
¹⁾ Multiple of the nominal current ²⁾ Tripping time ³⁾ 2-pole ⁴⁾ 3-pole ⁵⁾ Electromagnetic tripping



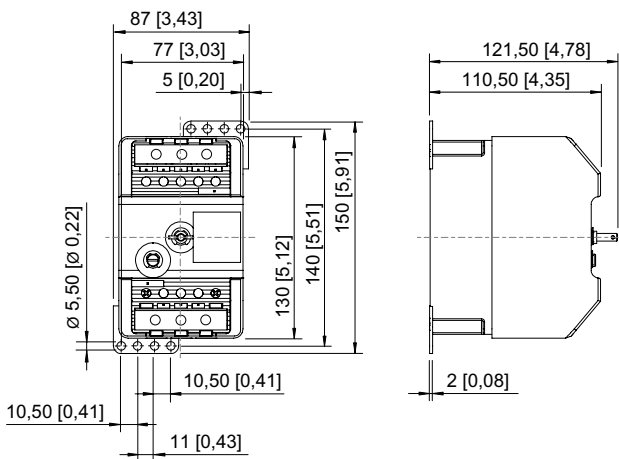
¹⁾ Multiple of the nominal current ²⁾ Tripping time ³⁾ 2-pole ⁴⁾ 3-pole ⁵⁾ Electromagnetic tripping

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

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8523/82 moulded case circuit breaker for motor protection Design size 2, with auxiliary contacts



8523/81 moulded case circuit breaker for motor protection Design size 1, without auxiliary contacts