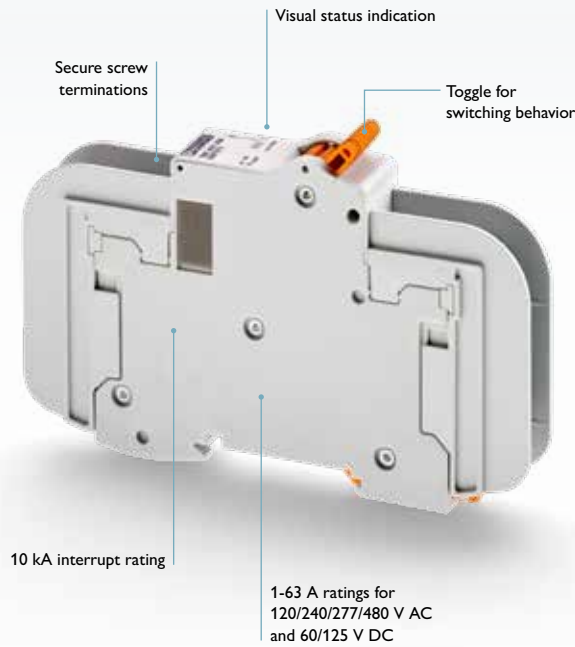




TMC 8

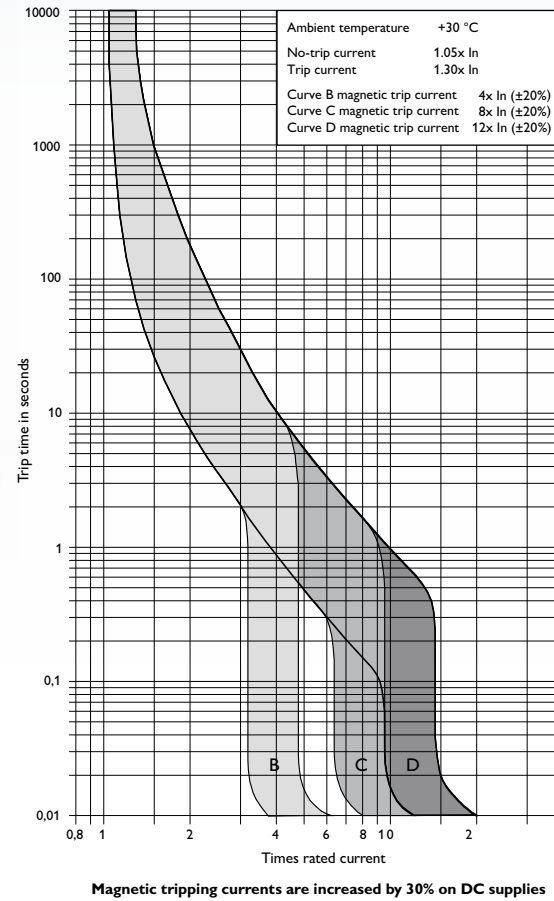
Features and benefits



Feature	Benefit
Single pole and multi-pole options	Accommodates a variety of applications
Visual status indication	Easy identification for maintenance and trouble-shooting
Snap-action mechanism	Eliminates contact welding and reduces contact wear
Trip-free design	Increased safety against closing during an overcurrent event
Cuttable auxiliary busbar	Easy bridging of contacts at a specified length
Range of trip curves (B, C, D)	Caters more specifically to each application
High-rated interrupting capacity	Durability for long lasting performance
International approvals for global use	Approved and listed products for specification purposes

Trip characteristics

The TMC 8 series includes a range of trip characteristics for a variety of applications; B, C, and D curves.



Curve	Application
B	<ul style="list-style-type: none"> Heaters Sensitive equipment
C	<ul style="list-style-type: none"> Small transformers Lighting Pilot devices Control circuits and coils
D	<ul style="list-style-type: none"> Motors Generators



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- Industrial Ethernet
- Installation and mounting material
- Lighting and signaling
- Marking and labeling
- Measurement and control technology
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- Monitoring
- PCB terminal blocks and PCB connectors
- Power supply units and UPS
- Protective devices
- Relay modules
- Sensor/actuator cabling
- Software
- Surge protection and interference filters
- System cabling for controllers
- Tools
- Wireless data communication

TMC 8 – Thermal-magnetic circuit breakers

UL 489 Listed

TMC 8

Thermal-magnetic circuit breakers

The TMC 8 series is composed of 1-pole, 2-pole, and 3-pole thermal-magnetic miniature circuit breakers (MCBs) in accordance with UL 489 and EN 60947-2 for DIN rail-mounted applications.

These dual-rated breakers are equipped with toggle actuation, visual status indication and high-rated interrupting capacity and are meant to protect branch circuit conductors. A positively trip-free snap action mechanism ensures reliable switching behavior for use in switchgear, panel boards, and electrical equipment.

Phoenix Contact's TMC 8 breakers are rated at 120/240/277/480 V AC and 60/125 V DC with a 10 kA short circuit current rating.

Part numbers

Ampere rating (A)	B Curve						C Curve						D Curve					
	1 Pole		2 Pole		3 Pole		1 Pole		2 Pole		3 Pole		1 Pole		2 Pole		3 Pole	
1	TMC 81B 01A	2907478	TMC 82B 01A	2907502	TMC 83B 01A	2907539	TMC 81C 01A	2907558	TMC 82C 01A	2907582	TMC 83C 01A	2907607	TMC 81D 01A	2907626	TMC 82D 01A	2907650	TMC 83D 01A	2907674
2	TMC 81B 02A	2907479	TMC 82B 02A	2907503	TMC 83B 02A	2907540	TMC 81C 02A	2907559	TMC 82C 02A	2907584	TMC 83C 02A	2907608	TMC 81D 02A	2907627	TMC 82D 02A	2907652	TMC 83D 02A	2907675
3	TMC 81B 03A	2907480	TMC 82B 03A	2907504	TMC 83B 03A	2907542	TMC 81C 03A	2907560	TMC 82C 03A	2907585	TMC 83C 03A	2907609	TMC 81D 03A	2907628	TMC 82D 03A	2907653	TMC 83D 03A	2907676
4	TMC 81B 04A	2907481	TMC 82B 04A	2907505	TMC 83B 04A	2907543	TMC 81C 04A	2907561	TMC 82C 04A	2907586	TMC 83C 04A	2907610	TMC 81D 04A	2907629	TMC 82D 04A	2907654	TMC 83D 04A	2907678
5	TMC 81B 05A	2907482	TMC 82B 05A	2907506	TMC 83B 05A	2907544	TMC 81C 05A	2907562	TMC 82C 05A	2907587	TMC 83C 05A	2907611	TMC 81D 05A	2907630	TMC 82D 05A	2907655	TMC 83D 05A	2907679
6	TMC 81B 06A	2907483	TMC 82B 06A	2907507	TMC 83B 06A	2907545	TMC 81C 06A	2907563	TMC 82C 06A	2907588	TMC 83C 06A	2907612	TMC 81D 06A	2907631	TMC 82D 06A	2907656	TMC 83D 06A	2907681
7	TMC 81B 07A	2907484	TMC 82B 07A	2907508	TMC 83B 07A	2907546	TMC 81C 07A	2907564	TMC 82C 07A	2907589	TMC 83C 07A	2907613	TMC 81D 07A	2907632	TMC 82D 07A	2907657	TMC 83D 07A	2907682
8	TMC 81B 08A	2907485	TMC 82B 08A	2907510	TMC 83B 08A	2907547	TMC 81C 08A	2907565	TMC 82C 08A	2907590	TMC 83C 08A	2907614	TMC 81D 08A	2907633	TMC 82D 08A	2907658	TMC 83D 08A	2907683
10	TMC 81B 10A	2907487	TMC 82B 10A	2907511	TMC 83B 10A	2907548	TMC 81C 10A	2907566	TMC 82C 10A	2907591	TMC 83C 10A	2907615	TMC 81D 10A	2907634	TMC 82D 10A	2907659	TMC 83D 10A	2907684
12	TMC 81B 12A	2907488	TMC 82B 12A	2907512	TMC 83B 12A	2907549	TMC 81C 12A	2907568	TMC 82C 12A	2907592	TMC 83C 12A	2907616	TMC 81D 12A	2907636	TMC 82D 12A	2907660	TMC 83D 12A	2907685
13	TMC 81B 13A	2907489	TMC 82B 13A	2907513	TMC 83B 13A	2907550	TMC 81C 13A	2907569	TMC 82C 13A	2907593	TMC 83C 13A	2907617	TMC 81D 13A	2907637	TMC 82D 13A	2907661	TMC 83D 13A	2907686
15	TMC 81B 15A	2907490	TMC 82B 15A	2907514	TMC 83B 15A	2907551	TMC 81C 15A	2907571	TMC 82C 15A	2907594	TMC 83C 15A	2907618	TMC 81D 15A	2907638	TMC 82D 15A	2907662	TMC 83D 15A	2907687
16	TMC 81B 16A	2907491	TMC 82B 16A	2907515	TMC 83B 16A	2907552	TMC 81C 16A	2907572	TMC 82C 16A	2907595	TMC 83C 16A	2907620	TMC 81D 16A	2907639	TMC 82D 16A	2907663	TMC 83D 16A	2907688
20	TMC 81B 20A	2907492	TMC 82B 20A	2907516	TMC 83B 20A	2907553	TMC 81C 20A	2907573	TMC 82C 20A	2907597	TMC 83C 20A	2907621	TMC 81D 20A	2907640	TMC 82D 20A	2907665	TMC 83D 20A	2907689
25	TMC 81B 25A	2907493	TMC 82B 25A	2907530	TMC 83B 25A	2907555	TMC 81C 25A	2907574	TMC 82C 25A	2907598	TMC 83C 25A	2907623	TMC 81D 25A	2907641	TMC 82D 25A	2907666	TMC 83D 25A	2907690
30	TMC 81B 30A	2907494	TMC 82B 30A	2907531	TMC 83B 30A	2907556	TMC 81C 30A	2907575	TMC 82C 30A	2907599	TMC 83C 30A	2907624	TMC 81D 30A	2907642	TMC 82D 30A	2907667	TMC 83D 30A	2907691
32	TMC 81B 32A	2907495	TMC 82B 32A	2907532	TMC 83B 32A	2907557	TMC 81C 32A	2907576	TMC 82C 32A	2907600	TMC 83C 32A	2907625	TMC 81D 32A	2907643	TMC 82D 32A	2907668	TMC 83D 32A	2907692
35	TMC 81B 35A	2907496	TMC 82B 35A	2907533	-	-	TMC 81C 35A	2907577	TMC 82C 35A	2907601	-	-	TMC 81D 35A	2907644	TMC 82D 35A	2907669	-	-
40	TMC 81B 40A	2907497	TMC 82B 40A	2907534	-	-	TMC 81C 40A	2907578	TMC 82C 40A	2907602	-	-	TMC 81D 40A	2907645	TMC 82D 40A	2907670	-	-
50	TMC 81B 50A	2907498	TMC 82B 50A	2907535	-	-	TMC 81C 50A	2907579	TMC 82C 50A	2907603	-	-	TMC 81D 50A	2907646	TMC 82D 50A	2907671	-	-
60	TMC 81B 60A	2907500	TMC 82B 60A	2907536	-	-	TMC 81C 60A	2907580	TMC 82C 60A	2907604	-	-	TMC 81D 60A	2907647	TMC 82D 60A	2907672	-	-
63	TMC 81B 63A	2907501	TMC 82B 63A	2907537	-	-	TMC 81C 63A	2907581	TMC 82C 63A	2907605	-	-	TMC 81D 63A	2907649	TMC 82D 63A	2907673	-	-

Accessories

- UL Listed cuttable auxiliary busbar for easy bridging and custom fit solutions
- Alarm for overcurrent trip indication, not activated by manual operation of the actuator
- Shunt trip for remote trip; indicates under what conditions the breaker has tripped
- Auxiliary contact for notification of breaker actuator

For more information, visit:

www.phoenixcontact.com/UL489

Additional accessories	
Part number	Description
2908219	TMC 7/8 AUX
2908220	TMC 7/8 ALARM
2908221	TMC 7/8 12VDC SHNT
2908222	TMC 7/8 24VDC SHNT
2908224	TMC 7/8 48VDC SHNT
2908225	TMC 7/8 125VDC SHNT
2908226	TMC 7/8 120VAC SHNT
2908227	TMC 7/8 240VAC SHNT
2908228	TMC 7/8 277VAC SHNT

Cuttable busbar	
Part number	Description
2907991	TMC 8 BB 1P CUT
2907992	TMC 8 BB 1P CUT A
2907993	TMC 8 BB 2P CUT
2907995	TMC 8 BB 2P CUT A
2907996	TMC 8 BB 3P CUT
2907997	TMC 8 BB 3P CUT A
2907998	TMC 8 BB TERM PIN
2907999	TMC 8 BB END CAP
2908000	TMC 8 BB BUS CAP

