

Miniature Circuit Breakers PLS..., PLZ...

Technical Data

Mechanical

Frame Size:	45mm
Device Height:	80mm
Device Width:	17.5mm per pole
Mounting:	Quick fastening with 3 lock-in positions on DIN rail IEC60715

Degree of protection IP20

Upper and lower terminals Open mouthed/lift terminals

Terminal protection Finger and hand touch safe

Terminal capacity: 1-25mm²

Terminal fastening 2-2.4 Nm

Busbar thickness: 0.8-2.0 mm

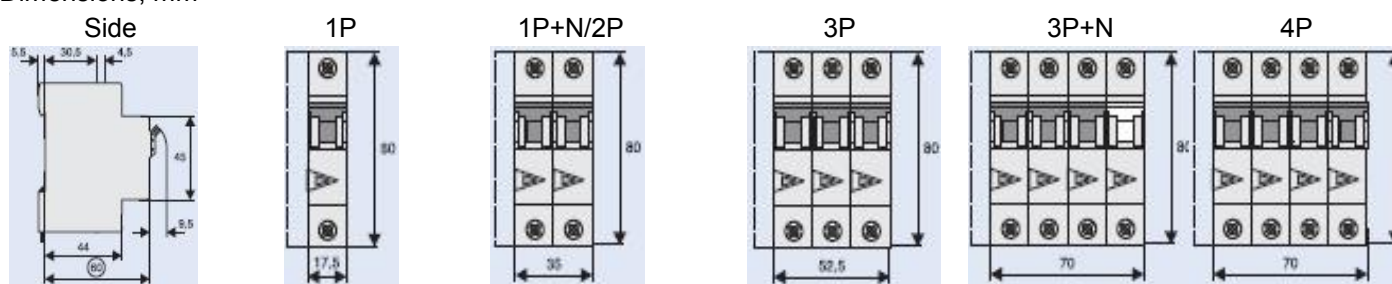
Mounting: Independent of position

Line voltage connection Optional, above/below

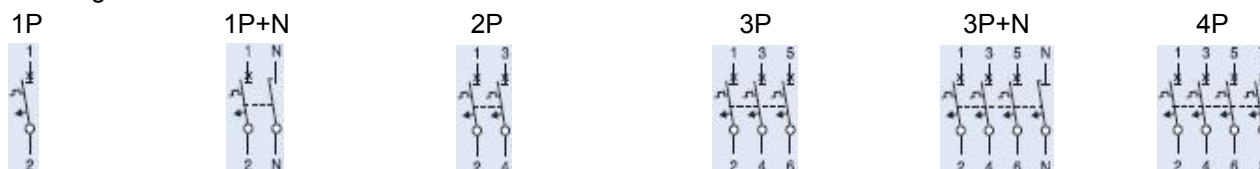
Features:

- High selectivity between MCB and back-up fuse due to low let-through energy;
- Compatible with standard busbar;
- Twin-purpose terminal above and below;
- Busbar positioning optionally above or below;
- Meets the requirements of insulation co-ordination distance between contacts $\geq 4\text{mm}$, for secure isolation;
- Suitable for applications up to 48VDC;

Dimensions, mm



Connection diagrams



Electrical

Design according to:

Current test marks as printed onto the device IEC/EN 60898-1

Rated Voltage AC: 230/400V

DC: 48V per pole

Rated frequency: 50/60Hz

Rated breaking capacity according to IEC

PLS4, PLZ4, PL4 4.5kA

PLS6, PLZ6, PL6 6.0kA

PLSM, PLZM, PL7 10kA

Characteristic: B, C, D

Rated peak withstand voltage, U_{imp}: 4kV

Selective class: 3

Endurance Electrical: $\geq 4,000$ Cycles

Accessories:

Auxiliary switch for subsequent installation: ZP-IHK 286052

Remote control & automatic switching device ZP-NHK 248437

switching device Z-FW/LP 248296

Shunt trip release: ZP-ASA/..., 24843 248439

Undervoltage release: Z-USA/..., 24828 248291

Switching Interlock: Z-IS/SPE-1TE 274418

Explanation PLS..., PLZ...

P=xPole, LS, LZ=MCB

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Miniature Circuit Breakers PLS4, PLZ4

- High-quality miniature circuit breakers for commercial and residential applications;
- Contact position indicator red and green;
- Guide for secure terminal connection;
- 3-position DIN rail clip, permits removal from existing busbar system;
- Comprehensive range of accessories suitable for subsequent installation;
- Rated breaking capacity 4.5kA according to IEC/EN 60898-1;

Miniature Circuit Breakers PLS4, 4.5kA

Rated Current, In	Characteristic B		Characteristic C		Units/Pack
	Designation & Code		Designation & Code		
1-pole					
6A	PLS4-B6	243150	PLS4-C6	243176	12/120
8A	PLS4-B8	243151	PLS4-C8	243177	12/120
10A	PLS4-B10	243152	PLS4-C10	243178	12/120
13A	PLS4-B13	243154	PLS4-C13	243180	12/120
16A	PLS4-B16	243156	PLS4-C16	243182	12/120
20A	PLS4-B20	243157	PLS4-C20	243183	12/120
25A	PLS4-B25	243158	PLS4-C25	243184	12/120
32A	PLS4-B32	243159	PLS4-C32	243185	12/120
40A	PLS4-B40	243160	PLS4-C40	243186	12/120
50A	PLS4-B50	243161	PLS4-C50	243187	12/120
63A	PLS4-B63	243162	PLS4-C63	243188	12/120
1+N-pole, 2MU					
6A	PLZ4-B6/1N	243198	PLZ4-C6/1N	243224	6/60
8A	PLZ4-B8/1N	243199	PLZ4-C8/1N	243225	6/60
10A	PLZ4-B10/1N	243200	PLZ4-C10/1N	243226	6/60
13A	PLZ4-B13/1N	243202	PLZ4-C13/1N	243228	6/60
16A	PLZ4-B16/1N	243204	PLZ4-C16/1N	243230	6/60
20A	PLZ4-B20/1N	243205	PLZ4-C20/1N	243231	6/60
25A	PLZ4-B25/1N	243206	PLZ4-C25/1N	243232	6/60
32A	PLZ4-B32/1N	243207	PLZ4-C32/1N	243233	6/60
40A	PLZ4-B40/1N	243208	PLZ4-C40/1N	243234	6/60
50A	PLZ4-B50/1N	243209	PLZ4-C50/1N	243235	6/60
63A	PLZ4-B63/1N	243210	PLZ4-C63/1N	243236	6/60
2-pole					
6A	PLS4-B6/2	243246	PLS4-C6/2	243272	6/60
8A	PLS4-B8/2	243247	PLS4-C8/2	243273	6/60
10A	PLS4-B10/2	243248	PLS4-C10/2	243274	6/60
13A	PLS4-B13/2	243250	PLS4-C13/2	243276	6/60
16A	PLS4-B16/2	243252	PLS4-C16/2	243278	6/60
20A	PLS4-B20/2	243253	PLS4-C20/2	243279	6/60
25A	PLS4-B25/2	243254	PLS4-C25/2	243280	6/60
32A	PLS4-B32/2	243255	PLS4-C32/2	243281	6/60
40A	PLS4-B40/2	243256	PLS4-C40/2	243282	6/60
50A	PLS4-B50/2	243257	PLS4-C50/2	243283	6/60
63A	PLS4-B63/2	243258	PLS4-C63/2	243284	6/60
3-pole					
6A	PLS4-B6/3	243294	PLS4-C6/3	243320	4/40
8A	PLS4-B8/3	243295	PLS4-C8/3	243321	4/40
10A	PLS4-B10/3	243296	PLS4-C10/3	243322	4/40
13A	PLS4-B13/3	243298	PLS4-C13/3	243324	4/40
16A	PLS4-B16/3	243300	PLS4-C16/3	243326	4/40
20A	PLS4-B20/3	243301	PLS4-C20/3	243327	4/40
25A	PLS4-B25/3	243302	PLS4-C25/3	243328	4/40
32A	PLS4-B32/3	243303	PLS4-C32/3	243329	4/40
40A	PLS4-B40/3	243304	PLS4-C40/3	243330	4/40
50A	PLS4-B50/3	243305	PLS4-C50/3	243331	4/40
63A	PLS4-B63/3	243306	PLS4-C63/3	243332	4/40





Explanation PLS4, PLZ4

P=xPole, LS, LZ=MCB, 4=4.5kA

Miniature Circuit Breakers PLS6, PLZ6

- High-quality miniature circuit breakers for commercial and residential applications;
- Contact position indicator red and green;
- Guide for secure terminal connection;
- 3-position DIN rail clip, permits removal from existing busbar system;
- Comprehensive range of accessories suitable for subsequent installation;
- Rated breaking capacity 6kA according to IEC/EN 60898-1;

Miniature Circuit Breakers PLS6/PLZ6, 6kA

	Rated Current, In Designation & Code		Designation & Code		Designation & Code		Units/Pack	
	Type	Characteristic B	Characteristic C	Characteristic D	Characteristic D	Characteristic D		
 1P	1-pole							
	6A	PLS6-B6	242649	PLS6-C6	242675	PLS6-D6	242698	12/120
	8A	PLS6-B8	242650	PLS6-C8	242676	PLS6-D8	242699	12/120
	10A	PLS6-B10	242651	PLS6-C10	242677	PLS6-D10	242700	12/120
	13A	PLS6-B13	242653	PLS6-C13	242679	PLS6-D13	242702	12/120
	16A	PLS6-B16	242655	PLS6-C16	242681	PLS6-D16	242704	12/120
	20A	PLS6-B20	242656	PLS6-C20	242682	PLS6-D20	242705	12/120
	25A	PLS6-B25	242657	PLS6-C25	242683	PLS6-D25	242706	12/120
	32A	PLS6-B32	242658	PLS6-C32	242684	PLS6-D32	242707	12/120
	40A	PLS6-B40	242659	PLS6-C40	242685	PLS6-D40	242708	12/120
	50A	PLS6-B50	242660	PLS6-C50	242686	-	-	-
63A	PLS6-B63	242661	PLS6-C63	242687	-	-	-	
 1P+N	1+N-pole, 2MU							
	6A	PLZ6-B6/1N	242779	PLZ6-C6/1N	242805	PLZ6-D6/1N	242828	6/60
	8A	PLZ6-B8/1N	242780	PLZ6-C8/1N	242806	PLZ6-D8/1N	242829	6/60
	10A	PLZ6-B10/1N	242781	PLZ6-C10/1N	242807	PLZ6-D10/1N	242830	6/60
	13A	PLZ6-B13/1N	242783	PLZ6-C13/1N	242809	PLZ6-D13/1N	242832	6/60
	16A	PLZ6-B16/1N	242785	PLZ6-C16/1N	242811	PLZ6-D16/1N	242834	6/60
	20A	PLZ6-B20/1N	242786	PLZ6-C20/1N	242812	PLZ6-D20/1N	242835	6/60
	25A	PLZ6-B25/1N	242787	PLZ6-C25/1N	242813	PLZ6-D25/1N	242836	6/60
	32A	PLZ6-B32/1N	242788	PLZ6-C32/1N	242814	PLZ6-D32/1N	242837	6/60
	40A	PLZ6-B40/1N	242789	PLZ6-C40/1N	242815	PLZ6-D40/1N	242838	6/60
	50A	PLZ6-B50/1N	242790	PLZ6-C50/1N	242816	-	-	-
63A	PLZ6-B63/1N	242791	PLZ6-C63/1N	242817	-	-	-	
 2P	2-pole							
	6A	PLS6-B6/2	242848	PLS6-C6/2	242874	PLS6-D6/2	242897	6/60
	8A	PLS6-B8/2	242849	PLS6-C8/2	242875	PLS6-D8/2	242898	6/60
	10A	PLS6-B10/2	242850	PLS6-C10/2	242876	PLS6-D10/2	242899	6/60
	13A	PLS6-B13/2	242852	PLS6-C13/2	242878	PLS6-D13/2	242901	6/60
	16A	PLS6-B16/2	242854	PLS6-C16/2	242880	PLS6-D16/2	242903	6/60
	20A	PLS6-B20/2	242855	PLS6-C20/2	242881	PLS6-D20/2	242904	6/60
	25A	PLS6-B25/2	242856	PLS6-C25/2	242882	PLS6-D25/2	242905	6/60
	32A	PLS6-B32/2	242857	PLS6-C32/2	242883	PLS6-D32/2	242906	6/60
	40A	PLS6-B40/2	242858	PLS6-C40/2	242884	PLS6-D40/2	242907	6/60
	50A	PLS6-B50/2	242859	PLS6-C50/2	242885	-	-	-
63A	PLS6-B63/2	242860	PLS6-C63/2	242886	-	-	-	
 3P	3-pole							
	6A	PLS6-B6/3	242917	PLS6-C6/3	242943	PLS6-D6/3	242966	4/40
	8A	PLS6-B8/3	242918	PLS6-C8/3	242944	PLS6-D8/3	242967	4/40
	10A	PLS6-B10/3	242919	PLS6-C10/3	242945	PLS6-D10/3	242968	4/40
	13A	PLS6-B13/3	242921	PLS6-C13/3	242947	PLS6-D13/3	242970	4/40
	16A	PLS6-B16/3	242923	PLS6-C16/3	242949	PLS6-D16/3	242972	4/40
	20A	PLS6-B20/3	242924	PLS6-C20/3	242950	PLS6-D20/3	242973	4/40
	25A	PLS6-B25/3	242925	PLS6-C25/3	242951	PLS6-D25/3	242974	4/40
	32A	PLS6-B32/3	242926	PLS6-C32/3	242952	PLS6-D32/3	242975	4/40
	40A	PLS6-B40/3	242927	PLS6-C40/3	242953	PLS6-D40/3	242976	4/40
	50A	PLS6-B50/3	242928	PLS6-C50/3	242954	-	-	-
63A	PLS6-B63/3	242929	PLS6-C63/3	242955	-	-	-	

Explanation PLS6, PLZ6 P=xPole, LS, LZ=MCB, 6=6kA

Miniature Circuit Breakers PLS6, PLZ6

Miniature Circuit Breakers PLS6/PLZ6, 6kA

Rated Current, In	Designation & Code		Designation & Code		Designation & Code		Units/Pack
Type	Characteristic B		Characteristic C		Characteristic D		
3+N-pole							
6A	PLS6-B6/3N	242986	PLS6-C6/3N	243012	PLS6-D6/3N	243035	3/30
8A	PLS6-B8/3N	242987	PLS6-C8/3N	243013	PLS6-D8/3N	243036	3/30
10A	PLS6-B10/3N	242988	PLS6-C10/3N	243014	PLS6-D10/3N	243037	3/30
13A	PLS6-B13/3N	242990	PLS6-C13/3N	242016	PLS6-D13/3N	243039	3/30
16A	PLS6-B16/3N	242992	PLS6-C16/3N	242018	PLS6-D16/3N	243041	3/30
20A	PLS6-B20/3N	242993	PLS6-C20/3N	242019	PLS6-D20/3N	243042	3/30
25A	PLS6-B25/3N	242994	PLS6-C25/3N	242020	PLS6-D25/3N	243043	3/30
32A	PLS6-B32/3N	242995	PLS6-C32/3N	242021	PLS6-D32/3N	243044	3/30
40A	PLS6-B40/3N	242996	PLS6-C40/3N	242022	PLS6-D40/3N	243045	3/30
50A	PLS6-B50/3N	242997	PLS6-C50/3N	242023	-	-	-
63A	PLS6-B63/3N	242998	PLS6-C63/3N	242024	-	-	-
4-pole							
6A	PLS6-B6/4	243055	PLS6-C6/4	243081	PLS6-D6/4	243104	3/30
8A	PLS6-B8/4	243056	PLS6-C8/4	243082	PLS6-D8/4	243105	3/30
10A	PLS6-B10/4	243057	PLS6-C10/4	243083	PLS6-D10/4	243106	3/30
13A	PLS6-B13/4	243059	PLS6-C13/4	243085	PLS6-D13/4	243108	3/30
16A	PLS6-B16/4	243061	PLS6-C16/4	243087	PLS6-D16/4	243110	3/30
20A	PLS6-B20/4	243062	PLS6-C20/4	243088	PLS6-D20/4	243111	3/30
25A	PLS6-B25/4	243063	PLS6-C25/4	243089	PLS6-D25/4	243112	3/30
32A	PLS6-B32/4	243064	PLS6-C32/4	243090	PLS6-D32/4	243113	3/30
40A	PLS6-B40/4	243065	PLS6-C40/4	243091	PLS6-D40/4	243114	3/30
50A	PLS6-B50/4	243066	PLS6-C50/4	243092	-	-	-
63A	PLS6-B63/4	243067	PLS6-C63/4	243093	-	-	-

Explanation PLS6, PLZ6

P=xPole, LS, LZ=MCB, 6=6kA

Miniature Circuit Breakers PLSM, PLZM

- High-quality miniature circuit breakers for commercial and residential applications;
- Contact position indicator red and green;
- Guide for secure terminal connection;
- 3-position DIN rail clip, permits removal from existing busbar system;
- Comprehensive range of accessories suitable for subsequent installation;
- Rated breaking capacity 10kA according to IEC/EN 60898-1;

Miniature Circuit Breakers PLSM/PLZM, 10kA

Rated Current, In	Designation & Code		Designation & Code		Designation & Code		Units/Pack
Type	Characteristic B		Characteristic C		Characteristic D		
1-pole							
6	PLSM-B6	242174	PLSM-C6	242200	PLSM-D6	242223	12/120
8	PLSM-B8	242175	PLSM-C8	242201	PLSM-D8	242224	12/120
10	PLSM-B10	242176	PLSM-C10	242202	PLSM-D10	242225	12/120
13	PLSM-B13	242178	PLSM-C13	242204	PLSM-D13	242227	12/120
16	PLSM-B16	242180	PLSM-C16	242206	PLSM-D16	242229	12/120
20	PLSM-B20	242181	PLSM-C20	242207	PLSM-D20	242230	12/120
25	PLSM-B25	242182	PLSM-C25	242208	PLSM-D25	242231	12/120
32	PLSM-B32	242183	PLSM-C32	242209	PLSM-D32	242232	12/120
40	PLSM-B40	242184	PLSM-C40	242210	PLSM-D40	242233	12/120
50	PLSM-B50	242185	PLSM-C50	242211	-	-	-
63	PLSM-B63	242186	PLSM-C63	242212	-	-	-
1+N-pole, 2MU							
6	PLZM-B6/1N	242304	PLZM-C6/1N	242330	PLZM-D6/1N	242353	6/60
8	PLZM-B8/1N	242305	PLZM-C8/1N	242331	PLZM-D8/1N	242354	6/60
10	PLZM-B10/1N	242306	PLZM-C10/1N	242332	PLZM-D10/1N	242355	6/60
13	PLZM-B13/1N	242308	PLZM-C13/1N	242334	PLZM-D13/1N	242357	6/60

Explanation PLSM, PLZM

P=xPole, LS, LZ=MCB, M=10kA

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Miniature Circuit Breakers PLSM, PLZM

Miniature Circuit Breakers PLSM/PLZM, 10kA

Rated Current, In Designation & Code		Designation & Code		Designation & Code		Units/Pack
Type	Characteristic B	Characteristic C		Characteristic D		
16	PLZM-B16/1N 242310	PLZM-C16/1N 242336	PLZM-D16/1N 242359	6/60		
20	PLZM-B20/1N 242311	PLZM-C20/1N 242337	PLZM-D20/1N 242360	6/60		
25	PLZM-B25/1N 242312	PLZM-C25/1N 242338	PLZM-D25/1N 242361	6/60		
32	PLZM-B32/1N 242313	PLZM-C32/1N 242339	PLZM-D32/1N 242362	6/60		
40	PLZM-B40/1N 242314	PLZM-C40/1N 242340	PLZM-D40/1N 242363	6/60		
50	PLZM-B50/1N 242315	PLZM-C50/1N 242341	-	-		
63	PLZM-B63/1N 242316	PLZM-C63/1N 242342	-	-		
2-pole						
6	PLSM-B6/2 242373	PLSM-C6/2 242399	PLSM-D6/2 242422	6/60		
8	PLSM-B8/2 242374	PLSM-C8/2 242400	PLSM-D8/2 242423	6/60		
10	PLSM-B10/2 242375	PLSM-C10/2 242401	PLSM-D10/2 242424	6/60		
13	PLSM-B13/2 242377	PLSM-C13/2 242403	PLSM-D13/2 242426	6/60		
16	PLSM-B16/2 242379	PLSM-C16/2 242405	PLSM-D16/2 242428	6/60		
20	PLSM-B20/2 242380	PLSM-C20/2 242406	PLSM-D20/2 242429	6/60		
25	PLSM-B25/2 242381	PLSM-C25/2 242407	PLSM-D25/2 242430	6/60		
32	PLSM-B32/2 242382	PLSM-C32/2 242408	PLSM-D32/2 242431	6/60		
40	PLSM-B40/2 242383	PLSM-C40/2 242409	PLSM-D40/2 242432	6/60		
50	PLSM-B50/2 242384	PLSM-C50/2 242410	-	-		
63	PLSM-B63/2 242385	PLSM-C63/2 242411	-	-		
3-pole						
6	PLSM-B6/3 242442	PLSM-C6/3 242468	PLSM-D6/3 242491	4/40		
8	PLSM-B8/3 242443	PLSM-C8/3 242469	PLSM-D8/3 242492	4/40		
10	PLSM-B10/3 242444	PLSM-C10/3 242470	PLSM-D10/3 242493	4/40		
13	PLSM-B13/3 242446	PLSM-C13/3 242472	PLSM-D13/3 242495	4/40		
16	PLSM-B16/3 242448	PLSM-C16/3 242474	PLSM-D16/3 242497	4/40		
20	PLSM-B20/3 242449	PLSM-C20/3 242475	PLSM-D20/3 242498	4/40		
25	PLSM-B25/3 242450	PLSM-C25/3 242476	PLSM-D25/3 242499	4/40		
32	PLSM-B32/3 242451	PLSM-C32/3 242477	PLSM-D32/3 242500	4/40		
40	PLSM-B40/3 242452	PLSM-C40/3 242478	PLSM-D40/3 242501	4/40		
50	PLSM-B50/3 242453	PLSM-C50/3 242479	-	-		
63	PLSM-B63/3 242454	PLSM-C63/3 242480	-	-		
3+N-pole						
6	PLSM-B6/3N 242511	PLSM-C6/3N 242537	PLSM-D6/3N 242560	4/40		
8	PLSM-B8/3N 242512	PLSM-C8/3N 242538	PLSM-D8/3N 242561	4/40		
10	PLSM-B10/3N 242513	PLSM-C10/3N 242539	PLSM-D10/3N 242562	4/40		
13	PLSM-B13/3N 242515	PLSM-C13/3N 242541	PLSM-D13/3N 242564	4/40		
16	PLSM-B16/3N 242517	PLSM-C16/3N 242543	PLSM-D16/3N 242566	4/40		
20	PLSM-B20/3N 242518	PLSM-C20/3N 242544	PLSM-D20/3N 242567	4/40		
25	PLSM-B25/3N 242519	PLSM-C25/3N 242545	PLSM-D25/3N 242568	4/40		
32	PLSM-B32/3N 242520	PLSM-C32/3N 242546	PLSM-D32/3N 242569	4/40		
40	PLSM-B40/3N 242521	PLSM-C40/3N 242547	PLSM-D40/3N 242570	3/30		
50	PLSM-B50/3N 242522	PLSM-C50/3N 242548	-	-		
63	PLSM-B63/3N 242523	PLSM-C63/3N 242549	-	-		
4-pole						
6	PLSM-B6/4 242580	PLSM-C6/4 242606	PLSM-D6/4 242629	3/30		
8	PLSM-B8/4 242581	PLSM-C8/4 242607	PLSM-D8/4 242630	3/30		
10	PLSM-B10/4 242582	PLSM-C10/4 242608	PLSM-D10/4 242631	3/30		
13	PLSM-B13/4 242584	PLSM-C13/4 242610	PLSM-D13/4 242633	3/30		
16	PLSM-B16/4 242586	PLSM-C16/4 242612	PLSM-D16/4 242635	3/30		
20	PLSM-B20/4 242587	PLSM-C20/4 242613	PLSM-D20/4 242636	3/30		
25	PLSM-B25/4 242588	PLSM-C25/4 242614	PLSM-D25/4 242637	3/30		
32	PLSM-B32/4 242589	PLSM-C32/4 242615	PLSM-D32/4 242638	3/30		
40	PLSM-B40/4 242590	PLSM-C40/4 242616	PLSM-D40/4 242639	3/30		
50	PLSM-B50/4 242591	PLSM-C50/4 242617	-	-		
63	PLSM-B63/4 242592	PLSM-C63/4 242618	-	-		

Explanation PLSM, PLZM

P=xPole, LS, LZ=MCB, M=10kA