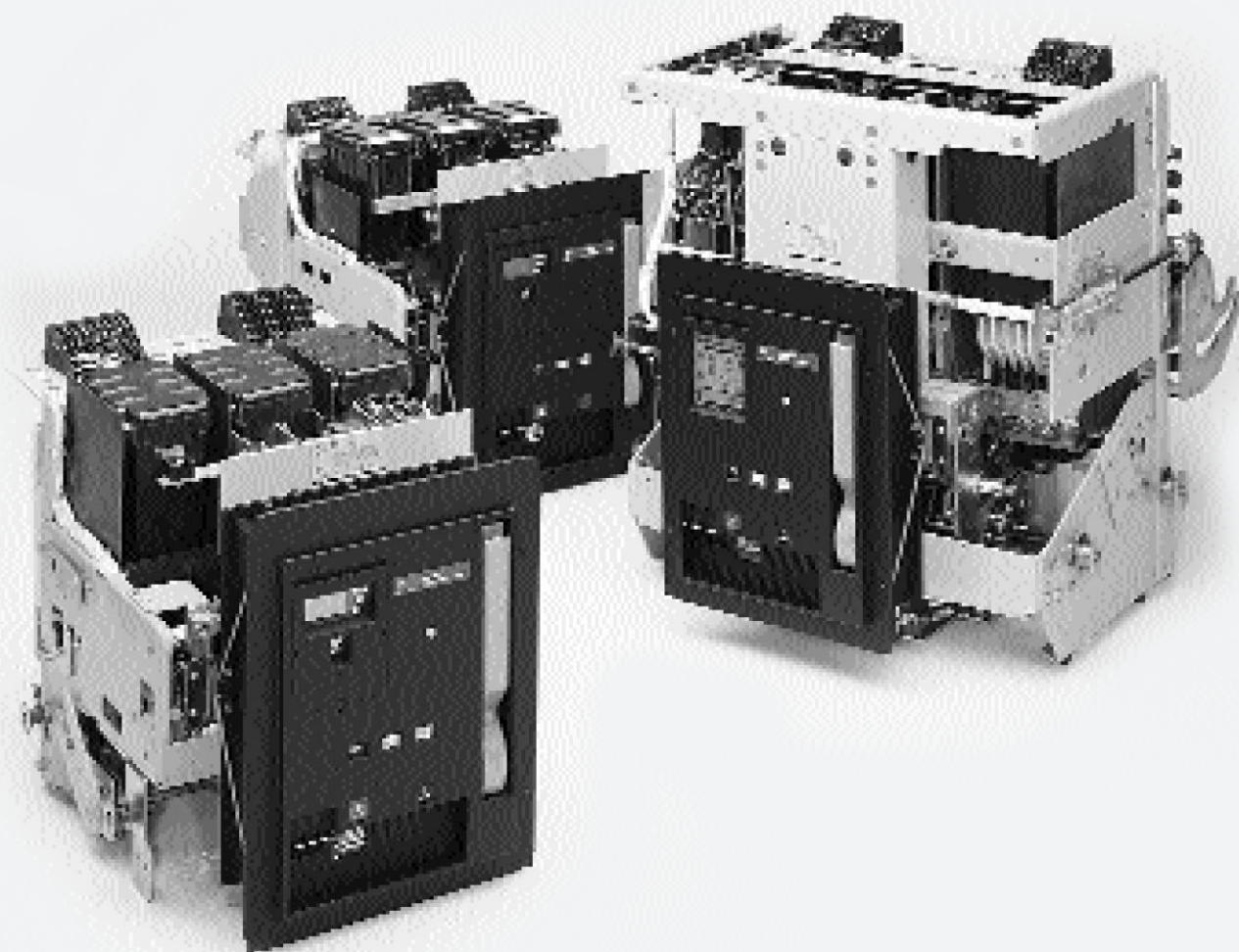


CATALOG NUMBER GUIDE [GE LEGACY DOCUMENT]

WavePro™ low voltage power circuit breakers

GE legacy product
documentation



Catalog Number Guide

Purpose of a WavePro catalog number: To identify exact replacement circuit breakers, as well as to verify the ratings and features of each circuit breaker.



Introduction

Each WavePro Low Voltage Power Circuit Breaker is fully described by a 15-character catalog number (found on the breaker nameplate). This catalog number provides information on:

1. The type of equipment in which the breaker is designed to be used.
2. The breaker frame size and interrupting rating.
3. The trip unit type, rating and characteristics.
4. The types and ratings of breaker mounted accessories.

This guide will help you understand the significance of each character within the WavePro catalog number. The back page also provides a handy accessory wiring guide.

For selection, pricing and ordering of WavePro breakers, please refer to the WavePro Product Catalog (DEP-080).



WavePro Breaker Catalog Number Guide (Catalog number stamped on breaker nameplate)

For identifying exact replacement WavePro breakers and verifying ratings and features of the circuit breaker

Equipment Usage		Frame Sizes & Interrupting Rating		Trip Unit Type, Characteristics & Trip Rating																																																																																																																																																																																																																															
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125	4		800		G		1600	M																																																																																																																																																																																																																											
150	5		1000		H		2000	N																																																																																																																																																																																																																											
150 ①	5	400	1100 ①		J	5000	2500	Q																																																																																																																																																																																																																											
200	6		1200		K		3000	R																																																																																																																																																																																																																											
225	7		1600		M		3600 ①	T																																																																																																																																																																																																																											
250	8		750 ①		F		4000	V																																																																																																																																																																																																																											
300	9	800	800 ①		G	3200 ①	S																																																																																																																																																																																																																												
400	A		1000		H	5000	V																																																																																																																																																																																																																												
300 ①	9		2000	1200		K	5000 ①	W																																																																																																																																																																																																																											
400	A		1500 ①		L	① Rating plug value not available on Power+ trip unit																																																																																																																																																																																																																													
450 ①	B		1600		M																																																																																																																																																																																																																														
500	C	2000		N																																																																																																																																																																																																																															
<p>Note 1: If 4 wire GF is required then the "A-Disc" [character position 14] must be selected and the 4th wire (neutral) sensor must be ordered separately. Refer to DEP-080 Product Catalog.</p> <p>Sensor = "none" for non-automatic breakers</p>				<p>Table A</p> <p>L = Long Time (LT) S = Short Time (ST) I = Instantaneous (Inst) G = Ground Fault (GF) GD = Defeatable GF</p> <p>X = Switchable ST or Inst and GF Z1 = Zone Selective Interlocking—GF Z2 = Zone Selective Interlocking—GF and ST</p>																																																																																																																																																																																																																															

Breaker Operation & Control Voltages

F 8 **1** 9

Operation Charge & Close		Code
manual		X
manual with remote close ①		
Close voltage		
120v-60Hz		1
240v-60Hz		3
120v-50Hz		4
240v-50Hz		6
48v -DC		A
110v-DC		B
125v-DC		C
250v-DC		D
electrical ①		
Charge / Close		
48v-DC		E
120v-60Hz		F
120v-50Hz		H
120v-50/60/48v-DC		N
110v-DC		P
125v-DC		Q
250v-DC		R
240v-60Hz		T
240v-50Hz		W

① (Requires min 4 stage auxiliary switch and shunt trip)

Shunt Trip-1			
	Code		Code
none	X	24VDC ①	B
120VAC, 60Hz ①	1	48VDC	D
208VAC, 60Hz	2	110 / 125VDC ①	E
240VAC, 60Hz ①	3	250VDC ①	F
70VAC, 60Hz	4	① Coil ratings available for Shunt Trip-1 or Shunt Trip-2. All other ratings apply to Shunt Trip-1 only.	
120VAC, 50Hz	5		
208VAC, 50Hz	6		
240VAC, 50Hz	7		
12VDC	A		

Undervoltage (UV) or Electric Lockout (ELO) (See Note 2 Below)			
	Code		
	UV	UV w/TD	ELO
none	X	X	X
120V-50/60Hz	1		4
208V-50/60Hz		3 (TAKYUVT-3)	
240V-50/60Hz	2	3 (TAKYUVT-3)	5
24VDC	A		G
48VDC	B		H
110VDC	C		J
125VDC	C	E (TAKYUVT-1)	J
250VDC	D	F (TAKYUVT-2)	K

Note 2: Order Static Time Delay Unit (TAKYUVT-1,2,3) separately

Breaker Mounted Accessories

X 10 **B** 11 **B** 12 **X** 13 **Q** 14 **X** 15

Accessory Code	
none	X
Aux switch 4 stages	A
Aux switch 7 stages	B

Accessory	Code
none	X
Bell alarm	A
Bell alarm with lockout	B

Accessory	Code
none	X
Shunt Trip-2 (Not available on WPS-50)	n (See "Shunt Trip-1" codes—only those marked ① are available for 2nd shunt trip)









Future use




"A - Disc" (See Note 3 Below)	Hidden Close PB (E/O only)	Operation Counter	Remote Charge Indicator (E/O only)	Code
No	No	No	No	X
No	No	No	Yes	A
No	No	Yes	No	B
No	No	Yes	Yes	C
No	Yes	No	No	D
No	Yes	No	Yes	E
No	Yes	Yes	No	F
No	Yes	Yes	Yes	G
Yes	No	No	No	H
Yes	No	No	Yes	J
Yes	No	Yes	No	K
Yes	No	Yes	Yes	L
Yes	Yes	No	No	M
Yes	Yes	No	Yes	N
Yes	Yes	Yes	No	P
Yes	Yes	Yes	Yes	Q

Note 3: "A-Disconnect" (A-Disc) — the 36 point A-Disc is automatically supplied whenever any of the following accessories/features are ordered: **zone selective interlock, shunt trip, auxiliary switch, bell alarm, undervoltage, electric lockout, E/O, MVT PM**. Select the A-Disc if 4-wire GF is required or if a breaker is to be "PM Ready" and none of the above accessories/features are ordered. **"PM Ready" wiring includes inputs for 24vDC auxiliary power, communications, and 3 phase voltage.**




Accessory Wiring Guide for WavePro Breakers




A-Disc Block (left side from front)




10	Aux Switch (N.O. contact)	
1	Aux Switch	
2	Aux Switch	
11	Aux Switch (N.C. contact)	
12	Aux Switch (N.O. contact)	
3	Aux Switch	
4	Aux Switch	
13	Aux Switch (N.C. contact)	



5	Aux Switch (N.O. contact)	
6	Aux Switch (N.C. contact)	
7	(Note 1) Aux Switch (common)	



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

5	Shunt Trip (N.O. contact)	
6	Shunt Trip (N.C. contact)	
7	(Note 1) Shunt Trip (common)	


14	Bell Alarm (N.O. contact)	
15	Bell Alarm (N.C. contact)	
16	Bell Alarm (common)	

19	Bell Alarm (N.O. contact)	
20	Bell Alarm (N.C. contact)	
21	Bell Alarm (common)	

8	Closing Spring Charging Motor	
17	Closing Spring Charging Motor	

9	Close Circuit (electric bkr) *	
18	Close Circuit	

22	Undervoltage or Electric Lockout	
23	Undervoltage or Electric Lockout	









24	Neutral Sensor — Tap	
25	Neutral Sensor — Common	



26	Commnet +	
27	Commnet -	
28	Zone Selective Interlock (In +)	
29	Zone Selective Interlock (In -)	
30	Zone Selective Interlock (Out +)	
31	Zone Selective Interlock (Out -)	
32	Va (voltage conditioner)	
33	Vb (voltage conditioner)	
34	Vc (voltage conditioner)	
35	Trip Unit Auxiliary Power (24VDC +)	
36	Trip Unit Auxiliary Power (24VDC -)	

* Remote Close Accessory on manual breaker



** Remote Charge Indicator (closing springs) applies to E/O breakers only



C-Disc Block (right side from front)



10	Aux Switch (N.O. contact)	
1	Aux Switch	
2	Aux Switch	
11	Aux Switch (N.C. contact)	
12	Aux Switch (N.O. contact)	
3	Aux Switch	
4	Aux Switch	
13	Aux Switch (N.C. contact)	



14	2nd Shunt Trip	
5	(Note 1) 2nd Shunt Trip	

or



14	Aux Switch (N.O. contact)	
5	(Note 1) Aux Switch	



6	Aux Switch	
15	Aux Switch (N.C. contact)	



8	Remote Charge Indicator **	
17	Remote Charge Indicator **	

16	WPS-50 Fan Motor — 120VAC (H)	
7	WPS-50 Fan Motor — 120VAC (N)	

9	Spare	
18	Spare	
19	Spare	
20	Spare	
21	Spare	

22	OFLO (phase A)	
23	OFLO (phase A)	

24	OFLO (phase B)	
25	OFLO (phase B)	

26	OFLO (phase C)	
27	OFLO (phase C)	

28	Spare	
29	Spare	
30	Spare	
31	Spare	
32	Spare	
33	Spare	
34	Spare	
35	Spare	
36	Spare	

Notes

1. Auxiliary switch contacts are wired out if shunt trip is not provided.
2. This drawing shows all breaker accessories. Refer to breaker catalog number for accessories included with the breaker.

Reference Publications

DES-001	Time current curve	Power+, MVT Plus / PM LSI	DET-167	WavePro Breaker Application Guide
DES-002	Time current curve	Power+, MVT Plus / PM GF	DEU-020	Breaker Guideform Specification, Substructure Drawings and Publications (CD-ROM)
DEH-178	MicroVersaTrip Plus/PM Trip Unit Users Guide		DEE-194	WavePro User Publications Summary
DEH-179	Power+ Trip Unit Users Guide			



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