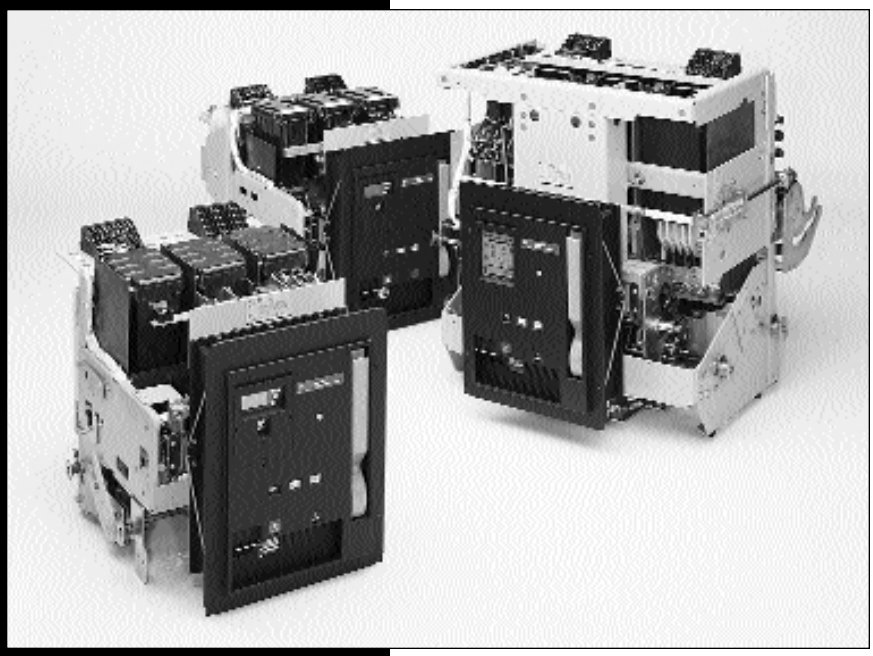
Catalog Number Guide

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

W E 2 D A Q D

1 2 3 4 5 6 7

Usage	Code
AKD10/PBII/AV3 Access Equipment	WE
OEM Equipment (Substructure Based)	WS

Interrupting Capability/ Fuse Type		Code
Standard	(ex. WPS)	1
High	(ex. WPH)	2
Extended	(ex. WPX)	3
OFLO only		4
300A	Class "J" fuse	A
350A	Class "J" fuse	B
400A	Class "J" fuse	C
450A	Class "J" fuse	D
500A	Class "J" fuse	E
600A	Class "J" fuse	F
800A	Class "L" fuse	G
1000A	Class "L" fuse	H
1200A	Class "L" fuse	J
1600A	Class "L" fuse	K
2000A	Class "L" fuse	L
2500A	Silver "L" fuse	M
800A	"Welder" limiter	N
1200A	"Welder" limiter	P
1600A	"Welder" limiter	Q
2000A	"Welder" limiter	R

Frame	& Sensor	Code *(See Note 1)*
800	none	A
	150	B
	400	C
	800	D
1600	none	E
	800	F
	1600	G
2000	none	H
	2000	J
3200	none	K
	3200	L
4000	none	M
	4000	N
5000	none	P
	5000	R

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.

Sensor = "none" for non-automatic breakers

Trip Unit type	Code
none (non-automatic)	X
MVT Plus	A
MVT M (metering & communications)	B
MVT PM (relaying, metering & communications)	C
Power + ①	G
Power + (w/GF) ① ③	H
Power + (w/Defeatable GF) ① ② ③	J
Power + (w/targets) ①	K
Power + (w/targets & GF) ① ③	L
Power + (w/targets & Defeatable GF) ① ② ③	M

① Power + is not available for 5000A frame breakers
② Not UL Listed ③ GF is 3w/4w (See Note 1)

Trip unit codes (See Table A)

TU function	Code	TU function	Code
none	X	LIGDZ1 ① ③	N
LS ②	A	LSI ②	P
LSG ③	B	LSIG ③	Q
LSGZ1 ③	C	LSIGX ① ③	R
LSGZ2 ③	D	LSIGZ1 ③	S
LSGD ① ③	E	LSIGZ2 ③	T
LSGDZ1 ① ③	F	LSIGD ① ③	V
LSGDZ2 ① ③	G	LSIGDZ1 ① ③	W
LI②	J	LSIGDZ2 ① ③	Y
LIG ③	K		
LIGZ1 ③	L		
LIGD ① ③	M		

① Not UL Listed
② Power+ available with LI, LS or LSI only
③ GF is 3w/4w (See Note 1)

Sensor	Rating Plug	Code
	none	X
	60 ①	1
	80	2
150	100	3
	125	4
	150	5
	150 ①	5
	200	6
400	225	7
	250	8
	300	9
	400	A
	300 ①	9
800	400	A
	450 ①	B
	500	C

Sensor	Rating Plug	Code
	600	D
800	700	E
	800	G
	600 ①	D
	800	G
1600	1000	H
	1100 ①	J
	1200	K
	1600	M
	750 ①	F
	800 ①	G
	1000	H
2000	1200	K
	1500 ①	L
	1600	M
	2000	N

Sensor	Rating Plug	Code
	1200	K
3200	1600	M
	2400	P
	3200	S
	1600	M
	2000	N
4000	2500	Q
	3000	R
	3600 ①	T
	4000	V
	3200 ①	S
5000	4000 ①	V
	5000 ①	W

① Rating plug value not available on Power+ trip unit

Table A

L = Long Time (LT)
S = Short Time (ST)
I = Instantaneous (Inst)
G = Ground Fault (GF)
GD = Defeatable GF
X = Switchable ST or Inst and GF
Z1 = Zone Selective Interlocking—GF
Z2 = Zone Selective Interlocking—GF and ST

Breaker Operation & Control Voltages

Breaker Mounted Accessories

F	1	X	B	B	X	Q	X
8	9	10	11	12	13	14	15

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)*

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.***

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

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)	

or

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		
DEH-179	Power+ Trip Unit Users Guide	DEE-194	WavePro User Publications Summary

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