

Bulletin 2127E

Two Speed Reversing 2-Winding Starter Unit with Circuit Breaker (TSR2W)

See page 32 for product description.

Note: A two-speed 2-winding motor (TSR2W) requires a mechanically and electrically interlocked assembly of two 3-pole contactors. A two-speed 1-winding motor (TSR1W) requires a mechanically and electrically interlocked assembly of 3-pole and 5-pole contactors. Consult your local Rockwell Automation Sales Office for application assistance.

NEMA Size	Constant or Variable Torque Line Voltage				Space Factor	Catalog Number ^[1] Wiring Type B—Class I		Delivery Program
	208V Hp	240V Hp	380V-415V Hp	480V/600V Hp		NEMA Type 1 and Type 1 w/ gasket	NEMA Type 12	
1	0.125-7.5	0.125-7.5	0.125-10	0.125-10	3.0	2127EB-BA_ _ _	2127EB-BD_ _ _	SC
2	10	10-15	15-25	15-25	3.0	2127EB-CA_ _ _	2127EB-CD_ _ _	

[1] The catalog numbers listed are not complete:

- Select the control voltage type from table on page 205 (e.g., 2127EB-BABD).
- Select the horsepower from table on page 206 (e.g., 2127EB-BABD-31).
- Select the circuit breaker from Circuit Breaker Type table on page 209 (e.g., 2127EB-BABD-31CA).
- For circuit breaker size based on load horsepower, refer to publications 2100-TD001x-EN-P and 2100-TD002x-EN-P.

The catalog numbers listed include an external reset button for the overload relay. To order catalog numbers **without** the external reset button, replace the letter “A” with the letter “K” (e.g., 2127EB-BK_ _ _) or replace the letter “D” with the letter “J” (e.g., 2127EB-BJ_ _ _).

Bulletin 2127F

Two Speed Reversing 1-Winding Starter Unit with Circuit Breaker (TSR1W)

See page 32 for product description.

Note: A two-speed 2-winding motor (TSR2W) requires a mechanically and electrically interlocked assembly of two 3-pole contactors. A two-speed 1-winding motor (TSR1W) requires a mechanically and electrically interlocked assembly of 3-pole and 5-pole contactors. Consult your local Rockwell Automation Sales Office for application assistance.

NEMA Size	Constant or Variable Torque Line Voltage				Space Factor	Catalog Number ^[1] Wiring Type B—Class I		Delivery Program
	208V Hp	240V Hp	380V-415V Hp	480V/600V Hp		NEMA Type 1 and Type 1 w/ gasket	NEMA Type 12	
1	0.125-7.5	0.125-7.5	0.125-10	0.125-10	3.0	2127FB-BA_ _ _	2127FB-BD_ _ _	SC
2	10	10-15	15-25	15-25	3.0	2127FB-CA_ _ _	2127FB-CD_ _ _	

[1] The catalog numbers listed are not complete:

- Select the control voltage type from table on page 205 (e.g., 2127FB-BABD).
- Select the horsepower from table on page 206 (e.g., 2127FB-BABD-30).
- Select the circuit breaker from Circuit Breaker Type table on page 211 (e.g., 2127FB-BABD-30CA).
- For circuit breaker size based on load horsepower, refer to publications 2100-TD001x-EN-P and 2100-TD002x-EN-P.

The catalog numbers listed include an external reset button for the overload relay. To order catalog numbers **without** the external reset button, replace the letter “A” with the letter “K” (e.g., 2127FB-BK_ _ _) or replace the letter “D” with the letter “J” (e.g., 2127FB-BJ_ _ _).

Configuration Tables

Control Voltage Type for Bulletins 2102L, 2103L, 2106, 2107, 2112, 2113, 2122, 2123, 2126, 2127, 2172, and 2173 *

Control Voltage Code							Control Type
208V	240V	380V	400V	415V	480V	600V	
H	A	—	—	—	B	C	120V, 60Hz, Transformer Control ^[1]
HD	AD	—	—	—	BD	CD	120V, 60Hz, Separate Control ^[2]
—	—	N	—	I	—	—	110V, 50Hz, Transformer Control ^{[1],[3]}
—	—	NS	—	IS	—	—	110V, 50Hz, Separate Control ^[2]
—	—	—	KN	—	—	—	115V, 50Hz, Transformer Control ^{[1],[3]}
—	—	—	KNS	—	—	—	115V, 50Hz, Separate Control ^[2]
—	—	NP	—	—	—	—	220V, 50Hz, Transformer Control ^{[1],[3]}
—	—	NP	—	—	—	—	220V, 50Hz, Separate Control ^[2]
—	—	—	KNP	—	—	—	230V, 50Hz, Transformer Control ^{[1],[3]}
—	—	—	KNP	—	—	—	230V, 50Hz, Separate Control ^[2]
—	—	—	—	IT	—	—	240V, 50Hz, Transformer Control ^{[1],[3]}
—	—	—	—	IT	—	—	240V, 50Hz, Separate Control ^[2]
—	—	NLP	—	—	—	—	220V, 50Hz, Line to Neutral Control, (Separate Control) ^{[4],[5]}
—	—	—	KNLP	—	—	—	230V, 50Hz, Line to Neutral Control, (Separate Control) ^{[4],[5]}
—	—	—	—	ILT	—	—	240V, 50Hz, Line to Neutral Control, (Separate Control) ^{[4],[5]}
H	A	—	—	—	B	C	Common Control ^[6]

[1] Select a control circuit transformer. See Options section.

[2] Control circuit fusing (option 21) and/or disconnect interlock (option 98) may be required to comply with NEC. See Options section.

[3] Incorporates primary taps for future conversion to new global IEC voltage standards (e.g., 400V/115V/230V). Allows conversion without the need to replace transformers or coils.

[4] Requires horizontal neutral bus and vertical neutral bus in 9" vertical wireway. Refer to Section Modifications to select.

[5] Select control circuit fusing (see option 21 in Options section).

[6] Select control circuit fusing (see option 22 in Options section). Required to comply with NEC.

Primary Voltage Code for Bulletins 2195, 2196, and 2197

240V	380V	400V	415V	480V	600V
A	N	KN	I	B	C

Control Voltage Type for Bulletins 2154 and 2155

Control Voltage Code								Control Type
220V ^[1]	230V ^[1]	240V	380V ^[1]	400V ^[1]	415V ^[1]	480V	600V	
P	—	—	N	—	I	—	—	110V, 50Hz Transformer Control
—	P	—	—	KN	—	—	—	115V, 50Hz Transformer Control
—	—	A	—	—	—	B	C	120V, 60Hz Transformer Control

[1] Units at these voltages are not UL listed or CSA certified.

* Blue type indicates PE delivery program.

Configuration Tables

Control Voltage Type for Bulletins 2162, 2163, 2164, and 2165

Line Voltage	Voltage Code
220/230	P ^{[1],[2]}
240	A ^[2]
380	N ^{[1],[2]}
400	KN ^{[1],[2]}
415	I ^{[1],[2]}
480	B
600	C

[1] Units at these voltages are not UL listed or CSA certified.

[2] Not applicable to 2164 or 2165.

Horsepower Ratings for All Bulletins

Motor Hp	Number	Motor Hp	Number	Motor Hp	Number	Motor Hp	Number
0.125	30	3	38	40	46	250	56
0.25	31	5	39	50	47	300	57
0.33	32	7.5	40	60	48	350	58
0.50	33	10	41	75	49	400	59
0.75	34	15	42	100	50		
1	35	20	43	125	51	450	60
1.5	36	25	44	150	52	500	61
2	37	30	45	200	54		

kW Ratings for Bulletins 2154, 2155, 2162, and 2163 ^[1]

kW	Number	kW	Number
0.25	32K	37	47K
0.37	33K	45	48K
0.55	34K	55	49K
0.75	35K	75	50K
1.1	36K	90	51K
1.5	37K	110	52K
2.2	38K	132	53K
3.7	39K	150	54K
5.5	40K	160	55K
7.5	41K	185	56K
11	42K	200	57K
15	43K	220	58K
18.5	44K	250	59K
22	45K		
30	46K		

[1] kW rated units are not UL listed, cUL listed or CSA certified.

Fuse Clip Designator for Bulletin 2196 *

Fuse Clip Size	Fuse Clip Type	Fuse Clip Designator	Fuse Manufacturer Code [1]	Fuse Clip Class
30	J	24J	Select G or B	J
	R	24R	G=Ferraz Shawmut, B=Bussmann	R
	H [2]	24		H
60	J	25J	Select G or B	J
	R	25R	G=Ferraz Shawmut, B=Bussmann	R
	H [2]	25		H
100	J	26J	Select G or B	J
	R	26R	G=Ferraz Shawmut, B=Bussmann	R
	H [2]	26		H
200	J	27J	Select G or B	J
	R	27R	G=Ferraz Shawmut, B=Bussmann	R
	H [2]	27		H

[1] The Ferraz Shawmut Class J fuse incorporates blown fuse indication for fuses above 8A.
 [2] Power fuse option not available for Class H fuse clip.

Trip Current for Bulletin 2103L

Contacting Rating (Amperes)	Number	Trip Current (Amperes)
30 or 60	30	15
	31	20
30, 60, or 100	32	30
	34	40
60 or 100	35	50
	36	60
	37	70
100, 200, or 300	38 [1]	80
	39	90
	40	100
	41	125
200 or 300	42	150
	43	175
	44	200
	45	225
300	46	250
	47	300
	48	300

[1] Available only on 100A contactors.

Trip Current for Bulletin 2197

Number	Trip Current (Amperes)	Number	Trip Current (Amperes)
30	15	37	70
31	20	40	100
32	30	41	125
34	40	42	150
35	50	44	200
36	60	—	—

* See Appendix for short circuit withstand ratings. For fuse rating based upon kVA of transformer, see publication 2100-TD003x-EN-P. Selecting Bussmann or Littelfuse power fuse changes delivery program to PE. Power fuses are not available for Type H fuse clip. Power fuses are available on 480V and 600V only.