

2.3

Molded Case Circuit Breakers

Series C

J-Frame and HMCP (J) Shunt Trip

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Voltage Rating (AC Frequency = 50/60 Hz)	Factory Mounted Connection Type and Location 18-Inch (457.2 mm) Pigtail Leads			Terminal Block Same Side Suffix Number	Field Mounted Field Installation Kits ^①	
	Same Side Suffix Number	Rear ^② Suffix Number	Opposite Side Suffix Number		Pigtail Leads	Terminal Block
	Suffix Number	Suffix Number	Suffix Number	Suffix Number	Catalog Number	Catalog Number
Left-Pole Mounting AC/DC Ratings ^②						
12–24 Vac or Vdc	S41	S42	S43	S44	SNT2P04K	SNT2T04K
48–60 Vac or Vdc	S49	S50	S51	S52	SNT2P06K	SNT2T06K
110–240 Vac or 110–125 Vdc ^③	S09	S10	S11	S12	SNT2P11K	SNT2T11K
380–440 Vac or 220–250 Vdc	S13	S14	S15	S16	SNT2P14K	SNT2T14K
480–600 Vac	S17	S18	S19	S20	SNT2P18K	SNT2T18K
Right- or Neutral-Pole Mounting AC/DC Ratings						
12–24 Vac or Vdc	S45	S46	S47	S48	SNT2P04K	SNT2T04K ^④
48–60 Vac or Vdc	S53	S54	S55	S56	SNT2P06K	SNT2T06K ^④
110–240 Vac or 110–125 Vdc ^③	S29	S30	S31	S32	SNT2P11K	SNT2T11K ^④
380–440 Vac or 220–250 Vdc	S33	S34	S35	S36	SNT2P14K	SNT2T14K ^④
480–600 Vac	S37	S38	S39	S40	SNT2P18K	SNT2T18K ^④

K-Frame and HMCP (K) Shunt Trip

Voltage Rating (AC Frequency = 50/60 Hz)	Factory Mounted Connection Type and Location 18-Inch (457.2 mm) Pigtail Leads			Terminal Block Same Side Suffix Number	Field Mounted Field Installation Kits ^①	
	Same Side Suffix Number	Rear ^② Suffix Number	Opposite Side Suffix Number		Pigtail Leads	Terminal Block
	Suffix Number	Suffix Number	Suffix Number	Suffix Number	Catalog Number	Catalog Number
Left-Pole Mounting AC/DC Ratings ^②						
12–24 Vac or Vdc	S41	S42	S43	S44	SNT3P04K	SNT3T04K
48–60 Vac or Vdc	S49	S50	S51	S52	SNT3P06K	SNT3T06K
110–240 Vac or 110–125 Vdc ^③	S09	S10	S11	S12	SNT3P11K	SNT3T11K
380–440 Vac or 220–250 Vdc	S13	S14	S15	S16	SNT3P14K	SNT3T14K
480–600 Vac	S17	S18	S19	S20	SNT3P18K	SNT3T18K
Right- or Neutral-Pole Mounting AC/DC Ratings ^{⑤⑥}						
12–24 Vac or Vdc	S45	S46	S47	S48	SNT3P04K	SNT3T04K ^④
48–60 Vac or Vdc	S53	S54	S55	S56	SNT3P06K	SNT3T06K ^④
110–240 Vac or 110–125 Vdc ^③	S29	S30	S31	S32	SNT3P11K	SNT3T11K ^④
380–440 Vac or 220–250 Vdc	S33	S34	S35	S36	SNT3P14K	SNT3T14K ^④
480–600 Vac	S37	S38	S39	S40	SNT3P18K	SNT3T18K ^④

Notes

- ^① Listed with Underwriters Laboratories for field installation under E64983.
- ^② Standard mounting location—leads exit rear of breaker.
- ^③ Suitable for use with Class 1 ground fault sensing element.
- ^④ Not for use on four-pole circuit breakers.
- ^⑤ For use with KT (thermal-magnetic) trip units only.
- ^⑥ Breakers with K-Frame OPTIM 550 can only accept accessories in left pole.

Accessories

Internal Accessories

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Field Installation Kits											
Description	Factory Installation (HFDDC)	HFDDC ①	EGEDC, EGSDC, EGHDC	JGEDC, JGSDC, JGHDC	LGEDC, LGSDC, LGHDC	HJDDC	HKDDC	HLDDC	HMDLDC	NBDC	RGHDC
Right-Pole Mounting											
Auxiliary switch											
1A-1B	A06	A1X1PK	AUX1A1BPK	AUX1A1BPK	A1X2PK	A1X3PK	A1X4PK	A1X4PK	4980D16G05	—	
2A-2B	A13	A2X1RPK	AUX2A2BPK	AUX2A2BPK	A2X2PK	A2X3PK	A2X4PK	A2X4PK	4980D16G06	A2X6RPK	
Alarm switch											
1 make/1 break	B06	A1L1RPK	ALM1M1BEPK	ALM1M1BJPK	A1L2RPK	A1L3RPK	A1L4RPK	A1L4RPK	—	A1L6RPK	
Auxiliary and alarm combo											
1A-1B, 1 make/1 break	C05	AAL1RPK	AUXALRMEPK	AUXALRMJPK	AAL2RPK	AAL3RPK	AA114RPK	AA114RPK	—	A2L6RPK	
Left-Pole Mounting											
Shunt trip											
12 Vdc	S02	SNT1LP03K	SNT012CPK	SNT012CPK	SNT2P04K	SNT3P04K	SNT4LP03K	SNT4LP03K	2606D58G14	—	
24 Vdc	S02	SNT1LP03K	SNT024CPK	SNT024CPK	SNT2P04K	SNT3P04K	SNT4LP03K	SNT4LP03K	2606D58G13	SNT6P03K ②	
48 Vdc	S06	SNT1LP08K	SNT4860CPK	SNT4860CPK	SNT2P06K	SNT3P06K	SNT4LP23K	SNT4LP23K	2606D58G12	SNT6P23K ②	
60 Vdc	S06	SNT1LP08K	SNT4860CPK	SNT4860CPK	SNT2P06K	SNT3P06K	SNT4LP23K	SNT4LP23K	2606D58G11	SNT6P23K ②	
125 Vdc	S10	SNT1LP12K	SNT120CPK	SNT120CPK	SNT2P11K	SNT3P11K	SNT4LP26K	SNT4LP26K	2606D58G10	SNT6P23K ②	
250 Vdc	S14	SNT1LP18K	—	—	SNT2P14K	SNT3P14K	SNT4LP14K	SNT4LP14K	2606D58G09	SNT6P14K	
120 Vac	S06	SNT1LP12K	SNT120CPK	SNT120CPK	SNT2P11K	SNT3P11K	SNT4LP11K	SNT4LP11K	2060D58G05	SNT6P11K ②	
Undervoltage release											
12 Vdc	U30	UVH1LP20K	UVR012DPK	UVR012DPK	UVH2LP20K	UVH3LP20K	UVH4LP20K	UVH4LP20K	372D032G06	UVH6RP20K ②	
24 Vdc	U34	UVH1LP21K	UVR024DPK	UVR024DPK	UVH2LP21K	UVH3LP21K	UVH4LP21K	UVH4LP21K	372D032G07	UVH6RP21K ②	
48 Vdc	U38	UVH1LP22K	UVR048DPK	UVR048DPK	UVH2LP22K	UVH3LP22K	UVH4LP22K	UVH4LP22K	372D032G08	UVH6RP23K ②	
125 Vdc	U42	UVH1LP26K	UVR125DPK	UVR125DPK	UVH2LP26K	UVH3LP26K	UVH4LP26K	UVH4LP26K	372D032G09	UVH6RP26K ②	
250 Vdc	U46	UVH1LP28K	UVR250DPK	UVR250DPK	UVH2LP28K	UVH3LP28K	UVH4LP28K	UVH4LP28K	372D032G10	UVH6RP28K ②	
120 Vac	U14	UVH1LP08K	UVR120APK	UVR120APK	UVH2LP08K	UVH3LP08K	UVH4LP08K	UVH4LP08K	373D632G05	UVH6RP08K ②	

Notes

- ① F-Frame circuit breakers are factory sealed. Underwriters Laboratories requires that internal accessories be installed at the factory. Internal accessories are UL listed for factory installation under E7819. Where local codes and standards permit and UL listing is not required, internal accessories can be field installed. Accessory installation should be done before the circuit breaker is mounted and connected.
- ② Right-pole mounted.

One accessory can be mounted per pole, per breaker. Factory installation of accessories is available. Contact Eaton for assistance with part number configuration.

Internal Accessories—Right Pole Mounting

	FD PV ^① Factory Modification Code	Field Kit Catalog Number	JG PVS Factory Modification Code	Field Kit Catalog Number	KD PV KD PVS Factory Modification Code	Field Kit Catalog Number	LG PV Factory Modification Code	Field Kit Catalog Number	MDL PV Factory Modification Code	Field Kit Catalog Number
Auxiliary Switch										
1A-1B	A06	A1X1PK	A1	AUX1A1BPK	A06	A1X3PK	A1	AUX1A1BPK	A06	A1X4PK
2A-2B	A13	A2X1RPK	A2	AUX2A2BPK	A13	A2X3PK	A2	AUX2A2BPK	A13	A2X4PK
Alarm Switch										
1 make/1 break	B06	A1L1RPK	B1	ALM1M1BJPKL	B06	A1L3RPK	B1	ALM1M1BJPK	B06	A1L4RPK
Auxiliary and Alarm Combo										
1A-1B, 1 make/1 break	C05	AAL1RPK	B2w	AUXALRMJPK	C05	AAL3RPK	B2	AUXALRMJPK	C05	AA114RPK

Internal Accessories—Left Pole Mounting

	FD PV ^① Factory Modification Code	Field Kit Catalog Number	JG PVS Factory Modification Code	Field Kit Catalog Number	KD PV KD PVS Factory Modification Code	Field Kit Catalog Number	LG PV Factory Modification Code	Field Kit Catalog Number	MDL PV Factory Modification Code	Field Kit Catalog Number
Shunt Trip										
12 Vdc	S02	SNT1LP03K	S4	SNT012CPK	S42	SNT3P04K	S4	SNT012CPK	S02	SNT4LP03K
24 Vdc	S02	SNT1LP03K	S6	SNT024CPK	S42	SNT3P04K	S6	SNT024CPK	S02	SNT4LP03K
48 Vdc	S06	SNT1LP08K	S7	SNT4860CPK	S50	SNT3P06K	S7	SNT4860CPK	S86	SNT4LP23K
60 Vdc	S06	SNT1LP08K	S7	SNT4860CPK	S50	SNT3P06K	S7	SNT4860CPK	S86	SNT4LP23K
125 Vdc	S10	SNT1LP12K	S5	SNT125DPK	S10	SNT3P11K	S2	SNT120CPK	S42	SNT4LP26K
250 Vdc	S14	SNT1LP18K	—	—	S14	SNT3P14K	—	—	S14	SNT4LP14K
120 Vac	S10	SNT1LP12K	S2	SNT120CPK	S10	SNT3P11K	S2	SNT120CPK	S10	SNT4LP11K
Undervoltage Release										
12 Vdc	U30	UVH1LP20K	—	—	T02	UVH3LP20K	U1	UVR012DPK	T02	UVH4LP20K
24 Vdc	U34	UVH1LP21K	U2	UVR024CPK	T02	UVH3LP21K	U2	UVR024DPK	T06	UVH4LP21K
48 Vdc	U38	UVH1LP22K	U4	UVR048DPK	T10	UVH3LP22K	U4	UVR048DPK	T10	UVH4LP22K
60 Vdc	—	—	U4	UVR048DPK	—	—	—	—	—	—
125 Vdc	U42	UVH1LP26K	U6	UVR125DPK	T14	UVH3LP26K	U6	UVR125DPK	T14	UVH4LP26K
250 Vdc	U46	UVH1LP28K	U8	UVR250DPK	T18	UVH3LP28K	U8	UVR250DPK	T18	UVH4LP28K
120 Vac	U14	UVH1LP08K	U5	UVR120APK	U18	UVH3LP08K	U5	UVR120APK	U18	UVH4LP08K

Notes

^① Underwriters Laboratories requires that internal accessories for the FD PV be installed at the factory. Internal accessories are UL listed for factory installation under E7819. Where local codes and standards permit and UL listing is not required, internal accessories can be field installed. Accessory installation should be done before the circuit breaker is mounted and connected.

One accessory can be mounted per pole, per breaker.

Shunt Trip ①

Breaker Type	Voltage Rating	Mounting Location	Catalog Number	Factory Modification Code
E ² F/E ² FM	48–127 Vac or 48–60 Vdc	Left pole	SNT1LP08K ②	S06
	208–230 Vac or 110–127 Vdc	Left pole	SNT1LP12K ②	S10
E ² J/E ² JM	110–240 Vac or 110–125 Vdc	Left pole	SNT2P11K ③	S10
E ² K/E ² KM/E ² KW	110–240 Vac or 110–125 Vdc	Left pole	SNT3P11K ③	S10
E2LME/E2LMZ	24 Vac/Vdc	Left pole	SNT024CPK	S6
	48–60 Vac/Vdc	Left pole	SNT4860CPK	S7
	110–240 Vac/Vdc	Left pole	SNT120CPK	S2
E ² L/E ² LM/E ² LW/E ² M/E ² MM/E ² MW	48–60 Vac	Left pole	SNT4LP05K ②	S06
	48–60 Vdc	Left pole	SNT4LP23K ②	S86
	110–240 Vac	Left pole	SNT4LP11K ②	S10
	110–125 Vdc	Left pole	SNT4LP26K ②	S42
E ² N/E ² NM	110–240 Vac	Left pole	SNT5LP11K ②	S10
	110–125 Vdc	Left pole	SNT5LP26K ②	S42
E ² R/E ² RM	110–240 Vac	Right pole	SNT6P11K ④	S29
	110–125 Vdc	Right pole	SNT6P26K ④	S45

Auxiliary Switch

Breaker Type	Number of Sets of Contacts (1A and 1B)	Mounting Location	Catalog Number	Factory Modification Code
E ² F/E ² FM	1	Right	A1X1PK	A06
	2	Right	A2X1RPK	A13
E ² J/E ² JM	1	Right	A1X2PK	A06
	2	Right	A2X2PK	A13
E ² K/E ² KM/E ² KW	1	Right	A1X3PK	A06
	2	Right	A2X3PK	A13
E ² LME/E ² LMZ	1	Right	AUX1A1BPK	A1
	2	Right	AUX2A2BPK	A2
E ² L/E ² LM/E ² LW/E ² M/E ² MM/E ² MW	1	Right	A1X4PK	A06
	2	Right	A2X4PK	A13
E ² N/E ² NM	1	Right	A1X5PK	A06
	2	Right	A2X5PK	A13
E ² R/E ² RM	2	Right	A2X6RPK	A12
	4	Right	A4X6RPK	A19

Alarm (Signal/Lockout Switch)

Breaker Type	Number of Sets of Contacts (Make and Break)	Mounting Location	Catalog Number	Factory Modification Code
E ² F/E ² FM	1	Right	A1L1LPK/A1L1RPK	B06
	2	Right	A2L1LPK/A2L1RPK	B13
E ² J/E ² JM	1	Right	A1L2LPK/A1L2RPK	B06
E ² K/E ² KM/E ² KW	1	Right	A1L3LPK/A1L3RPK	B06
	2	Right	A2L3LPK/A2L3RPK	B13
E ² LME/E ² LMZ	1	Right	ALM1M1B1BPK	B1
	2	Right	ALM2M2B1BPK	B3
E ² L/E ² LM/E ² LW/E ² M/E ² MM/E ² MW	1	Right	A1L4LPK/A1L4RPK	B06
	2	Right	A2L4LPK/A2L4RPK	B13
E ² N/E ² NM	1	Right	A1L5LPK/A1L5RPK	B06
	2	Right	A2L5LPK/A2L5RPK	B13
E ² R/E ² RM	1	Right	A1L6RPK	B05
	2	Right	A2L6RPK	B12

Notes

- ① Contact Eaton for internal accessory voltage ratings not listed.
 ② LH (RH also available).
 ③ LH or RH.
 ④ RH only.