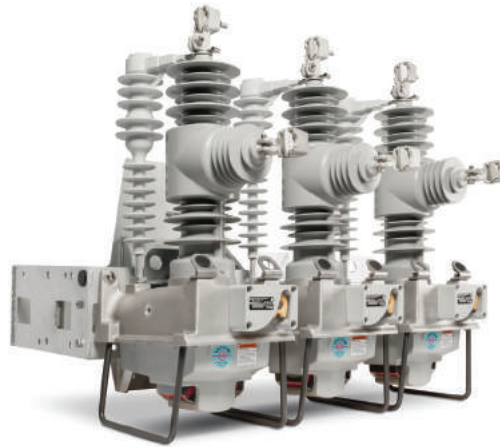


NOVA NX-T Recloser, Form 6 NX-T, and Form 6LS NX-T Recloser Control and Accessories Ordering Guide



Description

Eaton provides reliable, economical overcurrent protection, advanced metering, and automation systems for distribution circuits rated through 34.5 kV with its Cooper Power™ series NOVA™ NX-T triple-single, electronically-controlled, vacuum-interrupting automatic-circuit reclosers.

Eaton's Cooper Power™ series Form 6 NX-T and Form 6LS NX-T (Loop Scheme) triple-single recloser control features and accessories are listed on the following pages.

The Form 6 NX-T control utilizes the ProView interface software to create settings, customize logic, and interrogate the control. The Form 6LS NX-T control includes additional custom logic needed to utilize the loop scheme function. Select the Form 6 NX-T or Form 6LS NX-T control catalog number and then contact your local sales person at Eaton to specify and order the desired control.

The Form 6 NX-T and Form 6LS NX-T controls are to be used with the NOVA NX-T product.

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Powering Business Worldwide

NOVA NX-T Recloser System

Ordering information

To order a basic KNXT Recloser System:

- From Table 1, construct a catalog number that describes the required recloser system.
- From Table 2 and Table 3, specify the desired accessories.
- From Table 4, specify the desired mounting accessories.

Table 1. Base KNXT recloser system

Description	Catalog Number																			
Basic letters for a NOVA NX-T Recloser System	KNXT																			
Specify recloser voltage rating (Replace "XX")	KNXT	XX																		
15 = For 15 kV																				
27 = For 27 kV																				
38 = For 38 kV																				
Specify interrupting current (Replace "XX")	KNXT	XX	XX																	
12 = For 12.5 kA interrupting																				
16 = For 16 kA interrupting (for 15 or 27 kV only)																				
Specify continuous current (Replace "X")	KNXT	XX	XX	X																
6 = For 630 A continuous current																				
8 = For 800 A continuous current																				
Specify rated impulse voltage (BIL) (Replace "X")	KNXT	XX	XX	X	X															
S = BIL: 110 kV for 15 kV rated system 125 kV for 27 kV rated system 170 kV for 38 kV rated system																				
C = Extra creepage: 125 kV BIL (extra creepage) for use with 15 kV system 150 kV BIL (extra creepage) for use with 27 kV system																				
Specify terminals required (Replace "X")	KNXT	XX	XX	X	X	X														
1 = Eyebolt terminals; 1/0 - 500 mcm for use with 630 A continuous current*																				
2 = Eyebolt terminals; 4/0 - 1000 mcm for use with 800 A continuous current**																				
3 = Two-hole flat pad terminals*																				
4 = Four-hole flat pad terminals																				
Specify language (Replace "XX")	KNXT	XX	XX	X	X	X	XX													
EN = English																				
XX = Other language required (contact factory)																				
Specify voltage sensing required (Replace "X")	KNXT	XX	XX	X	X	X	XX	X												
0 = None; no voltage sensing required																				
1 = Internal voltage sensing (source-side) only																				
2 = Internal voltage sensing and load-side sensors for sensing on both load and source; load-side sensor located to left of ECAP.																				
Specify housing option	KNXT	XX	XX	X	X	X	XX	X	0											
0 = Standard; grey thermoset polymer housing																				
Specify auxiliary switch requirement (Replace "X")	KNXT	XX	XX	X	X	X	XX	X	0	X										
N = None (standard) - no auxiliary switch required																				
A = Auxiliary switch, one 52a/52b contact per phase Refer to Table 2 to specify auxiliary switch cable.																				
Specify contact position indicators	KNXT	XX	XX	X	X	X	XX	X	0	X	N									
N = Standard indicators; closed on red, open on green																				

Table 1. Base KNXT recloser system (continued)

Description	Catalog Number											
	KNXT	XX	XX	X	X	X	XX	X	0	X	N	X
Specify mounting style (Replace "X")												
1 = Inline, parallel (see Figure 1); front-mounted, all ECAPs parallel. Includes integrated junction box.												
2 = Inline, perpendicular (see Figure 2); front-mounted, ECAPs of outside phases rotated 90 degrees outward. Includes integrated junction box. [†]												
3 = Tri-mount, parallel (see Figure 3); outer phases side-mounted, all ECAPs parallel. Includes integrated junction box. [†]												
4 = Tri-mount, perpendicular (see Figure 4); outer phases side-mounted, standard ECAP rotation. Includes integrated junction box.												

* For use with 630 A continuous current.
 ** For use with 800 A continuous current.
 † Not applicable to the KNXT38 systems.

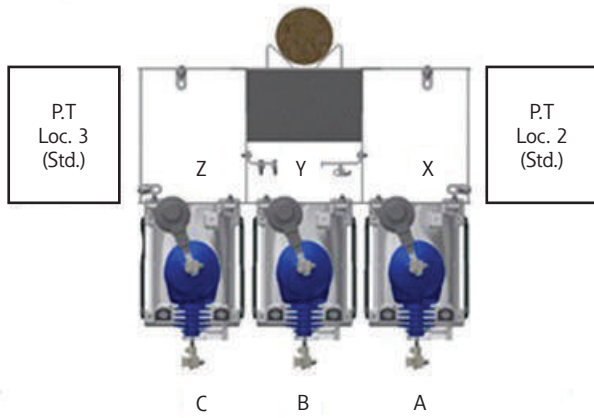


Figure 1. In-line, parallel frame

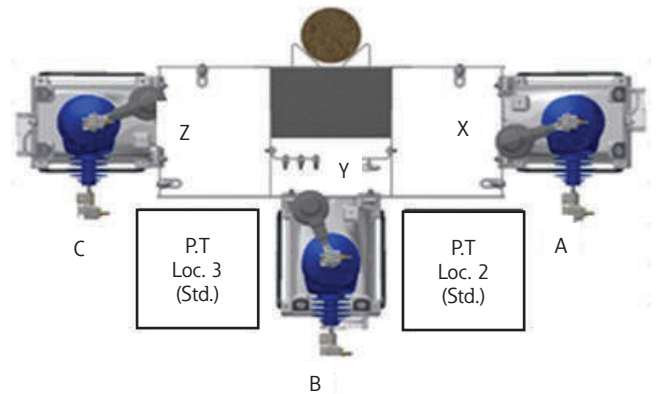


Figure 3. Tri-mount, parallel frame

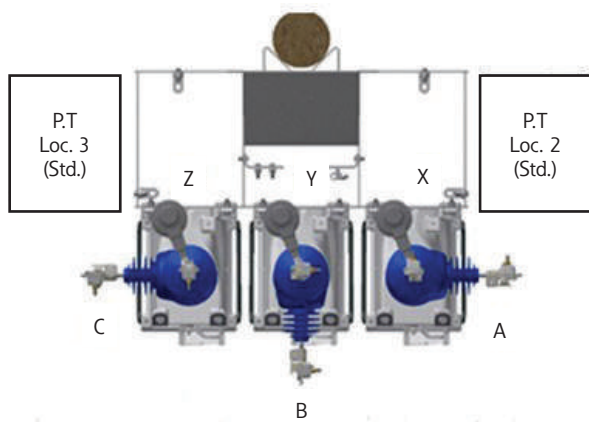


Figure 2. In-line, perpendicular frame

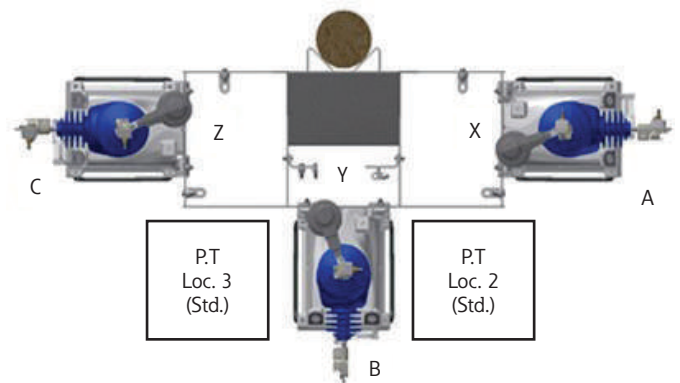


Figure 4. Tri-mount, perpendicular frame

Accessories

Table 2. Auxiliary switch cable

Description	Catalog Number
Auxiliary switch cable, 12/c, 16 AWG with (1) 14-pin female connector. Select from 5 - 95 feet. Connects from the auxiliary switch receptacle located within the integrated junction box to customer termination.	
Female 14-pin connector only; customer to supply cable*	KA66ME
Length adder	KA66ME-X

Table 3. Environmental protection

Description	Catalog Number
Terminal shields for enhanced environmental protection	
For use with 630 A eyebolt, or two-hole flat pads	
For use without load-side sensing	KNXT74A
For use with load-side sensing	KNXT74B
For use with 800 A eyebolt, four-hole flat pad terminals, with or without load-side sensing	KNXT87A
Wildlife protection (bird guards)	
For use without load-side sensing	KAMB27B
For use with load-side sensing	KAMB27A

Table 4. Mounting accessories

Description	Catalog Number
Adapter for concrete pole mounting	KNXT28A
Arrester mounting options	
Source (front) arrester mounting for three (3) arresters	
Packed as a kit with the system	PK-KNX29A
Factory-assembled onto the frame	FA-KNX29A
Source (front) and load (rear) arrester mounting for six (6) arresters	
Packed as a kit with the system	PK-KNX29C
Factory-assembled onto the frame	FA-KNX29C
Power transformer (P.T.) mounting bracket options*	
For oil type P.T.s	
Mounting bracket for one (1) P.T.	
Packed as a kit with the system	PK-KNX26A
Factory-assembled onto the frame	FA-KNX26A
Mounting brackets for two (2) P.T.s	
Packed as a kit with the system	PK-KNX26B
Factory-assembled onto the frame	FA-KNX26B
For solid/dry type P.T.s	
Mounting bracket for one (1) P.T.	
Packed as a kit with the system	PK-KNX26D
Factory-assembled onto the frame	FA-KNX26D
Mounting brackets for two (2) P.T.s	
Packed as a kit with the system	PK-KNX26E
Factory-assembled onto the frame	FA-KNX26E

* Locations 2 and 3 are standard P.T. mounting locations. Contact factory if other locations are required.

P.T.s and Arresters can be included; contact factory.

Full site-ready assembly and wiring is available; contact factory for details.

Form 6 NX-T Recloser Control

Recloser control for use with the NOVA NX-T recloser system

Ordering information

To order a basic type Form 6 NX-T control,

- From Table 5, construct a catalog number that describes the required control.
- From Table 6, specify the desired control cable and length.
- From Table 7–13, specify the desired accessories.

Table 5. Base KNX6T recloser control

Description	Catalog Number							
Base letters for a Form 6 NX-T control	KNX6T							
Control usage option (Replace "X")	KNX6T	X						
A = Standard 37-pin receptacle for use without voltage sensing								
B = Standard 37-pin receptacle for use with internal voltage sensing source side								
C = Standard 37-pin receptacle for use with internal voltage sensing source side and integrated load side sensors								
Primary power supply (Replace "X")	KNX6T	X	X					
1 = 120 Vac, 2-wire / 240 Vac 3-wire with 13 Amp hour battery								
2 = 240 Vac, 2-wire with 13 Amp hour battery								
A = 120 Vac, 2-wire / 240 Vac 3-wire with mounting hardware only for the standard 13 Amp hour battery (battery not included)								
B = 240 Vac, 2-wire with mounting hardware only for the standard 13 Amp hour battery (battery not included)								
Current sensing option	KNX6T	X	X	1				
1 = 1 Amp RIF/sensing								
Voltage connection scheme (Replace "X")	KNX6T	X	X	1	X			
1 = Wye connected voltage inputs								
2 = Delta connected voltage inputs								
Cabinet option (Replace "X")	KNX6T	X	X	1	X	X		
1 = Mild steel, with 1/4 turn door latch								
2 = Stainless steel with 1/4 turn door latch								
3 = Mild steel with 3 pt. door latch								
4 = Stainless steel with 3 pt. door latch								
Transfer relay option (Replace "X")	KNX6T	X	X	1	X	X	X	
A = No transfer relay required								
B = Transfer relay*								
Input / Output contact options (Replace "X")	KNX6T	X	X	1	X	X	X	X
1 = Standard contacts; 3 input / 5 output, universal voltages								
2 = Additional contacts; universal inputs, 8 input / 8 output, universal voltages								
Specify communications (Replace "X") (Control includes an RS-232 port as a standard feature)	KNX6T	X	X	1	X	X	X	X
1 = RS-485 isolated								
3 = Serial fiber optic (ST) communications								
4 = Ethernet fiber optic / fiber optic communications (MTRJ/MTRJ)								
5 = Ethernet fiber optic / wire communications (MRTJ/RJ45)								
6 = Ethernet wire / wire communications (RJ45/RJ45)								
7 = Standard (none)								
8 = Ethernet single mode fiber optic / fiber optic								

Table 5. Base KNX6T recloser control (continued)

Description	Catalog Number									
	KNX6T	X	X	1	X	X	X	X	X	X
Language option (Replace "X")	KNX6T	X	X	1	X	X	X	X	X	X
E = English, domestic										
F = English, International with Sensitive Earth Fault (SEF)										
X = Other language required (contact factory)										

* Requires dual-source input receptacle.

Accessories

Table 6. Control cables

Description	Catalog Number
Standard control cable; 37-pin male and female connectors Select from: For control usage options without internal voltage sensing; 5-95 ft. For control usage options with internal voltage sensing; 5-50 ft. Replace "X" with desired length	KA155ME-X
Armored control cable; 10 ft. armor, 37-pin male and female connectors Select from: For control usage options without internal voltage sensing; 15-95 ft. For control usage options with internal voltage sensing; 15-50 ft. Replace "X" with desired length	KA157ME-X

Table 7. Receptacles and wiring

Description	Catalog Number
Input power only:	
120 Vac or 240 Vac input receptacle, 2-pin	KME6-1775-H
120 Vac input receptacle, 3-pin	KME6-1775-J
240 Vac input receptacle, 3-pin	KME6-1775-K
Dual-source input:	
(2) 2-pin input receptacles for dual source / transfer relay	KME6-1775-N [†]

[†] The KME6-1775-N requires (2) input cables.

Table 8. Input cables

Description	Catalog Number
Input cable for 2-pin, 120 or 240 Vac input, for use with KME6-1775-H or KME6-1775-N receptacle: (2 input cables are required for use with the KME6-1775-N)	
Standard cable; (1) 2-pin female connector Replace "X" with desired length. Select from 10 to 80 ft.*	KA11ME1-X
Armored input cable; 10 ft. armor, (1) 2-pin female connector Replace "X" with desired length. Select from 15 to 80 ft.	KA124ME-X
2nd input cable for use with KME6-1775-N :	
Standard cable; (1) 2-pin female connector Replace "X" with desired length. Select from 10 to 80 ft.*	KA11ME1-X
Armored input cable; 10 ft. armor, (1) 2-pin female connector Replace "X" with desired length. Select from 15 to 80 ft.	KA124ME-X
Input cable for 3-pin, 240 Vac input, for use with KME6-1775-K receptacle:	
Standard cable; (1) 3-pin female connector Replace "X" with desired length. Select from 10 to 80 ft.	KME4-67-2-X
Input cable for 3-pin, 120 Vac input, for use with KME6-1775-J receptacle:	
Standard cable; (1) 3-pin female connector Replace "X" with desired length. Select from 10 to 80 ft.	KME4-67-3-X
Armored input cable; 10 ft. armor, (1) 3-pin female connector Replace "X" with desired length. Select from 15 to 80 ft.	KA153ME-X

* "0" length can be specified to provide cable plug body connector only, for customer-supplied cable.

Table 9. Cable locking sleeves

Description	Catalog Number
Cable locking sleeve:	
Quantity 1	KME6-1772-1
Quantity 2	KME6-1772-2
Quantity 3	KME6-1772-3
Quantity 4	KME6-1772-4
Quantity 5	KME6-1772-5
Quantity 6	KME6-1772-6

Table 10. Convenience outlet

Description	Catalog Number
Fused 120 Vac, 3-wire polarized GFI convenience outlet*	KME6-1776-A

* Cannot be used with primary power option 2: 240 Vac, 2-wire with 13 Amp hour battery

Table 11. Automation packages

Description	Catalog Number
Full automation accessory; 12 Vdc radio provision (Radio and fiber-optic / RS-232 interface not included)	KME6-1774-3
Automation accessory (bracket only) 12 Vdc provision	KME6-1774-2
Full automation accessory with DNP-RTM / GSM Telemetric communication radio; 2G, 3G, and 4G compatible	KME6-1774-13

Table 12. Communication support equipment

Description	Catalog Number
RS-232 cable, 9 pins on both ends, for direct connection between DATA port and PC	KME5-66
DB9 to DB25 radio cable, 6 ft. length	KP2412A3

Table 13. Miscellaneous accessories

Description	Catalog Number
120 Vac bench-top power supply	KME5-60-1
Made in USA label	K89-407-1

Form 6LS NX-T Recloser Control

Recloser control for use with the NOVA NX-T recloser system

Ordering information

To order a basic type Form 6LS NX-T control,

- From Table 14, construct a catalog number that describes the required control.
- From Table 15, specify the desired control cable and length.
- From Table 16–21, specify the desired accessories.

Table 14. Base KNX6TLS recloser control

Description	Catalog Number								
Base letters for a Form 6LS NX-T control	KNX6TLS								
Control usage option (Replace "X")	KNX6TLS	X							
A = Standard 37 pin receptacle for use without voltage sensing									
B = Standard 37 pin receptacle for use with internal voltage sensing source side									
C = Standard 37 pin receptacle for use with internal voltage sensing source side and integrated load side sensors									
Primary power supply (Replace "X")	KNX6TLS	X	X						
1 = 120 Vac, 2-wire / 240 Vac 3-wire with 13 Amp hour battery									
A = 120 Vac, 2-wire / 240 Vac 3-wire with mounting hardware only for the standard 13 Amp hour battery (battery not included)									
Current sensing option	KNX6TLS	X	X	1					
1 = 1 Amp RIF/sensing									
Voltage connection scheme (Replace "X")	KNX6TLS	X	X	1	X				
1 = Wye connected voltage inputs									
2 = Delta connected voltage inputs									
Cabinet option (Replace "X")	KNX6TLS	X	X	1	X	X			
1 = Mild steel, with 1/4 turn door latch									
2 = Stainless steel with 1/4 turn door latch									
3 = Mild steel with 3 pt. door latch									
4 = Stainless steel with 3 pt. door latch									
LS / Transfer relay option (Replace "X")	KNX6TLS	X	X	1	X	X	B		
B = LS with transfer relay included									
Input / Output contact options (Replace "X")	KNX6TLS	X	X	1	X	X	B	X	
1 = Standard contacts; 3 input / 5 output, 12-250 Vac, standard connection									
2 = Additional contacts; universal inputs, 8 input / 8 output, 12-250 Vac, standard connection									
Specify communications (Replace "X") (Control includes an RS-232 port as a standard feature)	KNX6TLS	X	X	1	X	X	B	X	X
1 = RS-485 isolated									
3 = Serial fiber optic (ST) communications									
4 = Ethernet fiber optic / fiber optic communications (MTRJ/MTRJ)									
5 = Ethernet fiber optic / wire communications (MRTJ/RJ45)									
6 = Ethernet wire / wire communications (RJ45/RJ45)									
7 = Standard (none)									
8 = Ethernet single mode fiber optic / fiber optic									
Language option (Replace "X")	KNX6TLS	X	X	1	X	X	B	X	X
E = English, domestic									
X = Other language required (contact factory)									

Accessories

Table 15. Control cables

Description	Catalog Number
Standard control cable; 37-pin male and female connectors Select from: For control usage options without internal voltage sensing; 5-95 ft. For control usage options with internal voltage sensing; 5-50 ft. Replace "X" with desired length	KA155ME-X
Armored control cable; 10 ft. armor, 37-pin male and female connectors Select from: For control usage options without internal voltage sensing; 15-95 ft. For control usage options with internal voltage sensing; 15-50 ft. Replace "X" with desired length	KA157ME-X

Table 16. Input cables

Description	Catalog Number
Input cable for (2) 2-pin, dual-source input receptacles included as standard with the control. 2 input cables required.	
Cable 1	
Standard cable; (1) 2-pin female connector Replace "X" with desired length. Select from 10 to 80 ft.*	KA11ME1-X
Armored input cable; 10 ft. armor, (1) 2-pin female connector Replace "X" with desired length. Select from 15 to 80 ft.	KA124ME-X
Cable 2	
Standard cable; (1) 2-pin female connector Replace "X" with desired length. Select from 10 to 80 ft.*	KA11ME1-X
Armored input cable; 10 ft. armor, (1) 2-pin female connector Replace "X" with desired length. Select from 15 to 80 ft.	KA124ME-X

* "0" length can be specified to provide cable plug body connector only, for customer-supplied cable.

Table 17. Cable locking sleeves

Description	Catalog Number
Cable locking sleeve:	
Quantity 1	KME6-1772-1
Quantity 2	KME6-1772-2
Quantity 3	KME6-1772-3
Quantity 4	KME6-1772-4
Quantity 5	KME6-1772-5
Quantity 6	KME6-1772-6

Table 18. Convenience outlet

Description	Catalog Number
Fused 120 Vac, 3-wire polarized GFI convenience outlet*	KME6-1776-2

* Cannot be used with primary power option 2: 240 Vac, 2-wire with 13 Amp hour battery

Table 19. Automation packages

Description	Catalog Number
Full automation accessory; 12 Vdc radio provision (Radio and fiber-optic / RS-232 interface not included)	KME6-1774-5
Automation accessory (bracket only) 12 Vdc provision	KME6-1774-4

Table 20. Communication support equipment

Description	Catalog Number
RS-232 cable, 9 pins on both ends, for direct connection between DATA port and PC	KME5-66
DB9 to DB25 radio cable, 6 ft. length	KP2412A3

Table 21. Miscellaneous accessories

Description	Catalog Number
120 Vac bench-top power supply	KME5-60-1
Made in USA label	K89-407-1

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