
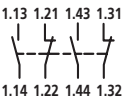

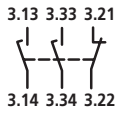

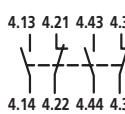
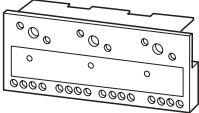
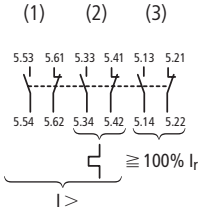


Molded Case Circuit Breakers and Switches

Auxiliary Contacts, Signalling Unit for Type NZM10-...-NA


Contact diagram	Type suffix	Price	Type	Price
	Article No. when ordered with basic device	see price list	Article No. when ordered separately ¹⁾	see price list
<p>NHI standard auxiliary contact</p> <p>Switching simultaneously with the main contacts. They can be typically used for signalling, interlocking or switching auxiliary circuits such as a control circuit.</p>  	+NHI-NZM10 034798		NHI-NZM10 034943	
<p>VHI early-make auxiliary contact</p> <p>Typically used for powering up the undervoltage trip prior to closing of main contacts and for control circuit interlocking tasks. Cannot be used in conjunction with R-NZM10 remote control drive.</p>  	+VHI-NZM10 034800		VHI-NZM10 034944	
<p>RHI trip-indicating auxiliary contact</p> <p>Actuating independently of the normal ON and OFF operations of the device, switching only when the device has tripped due to overcurrents or other tripping causes such as those initiated by voltage trips.</p>  	+RHI-NZM10 034797		RHI-NZM10 034945	
<p>Signalling block</p> <p>Differential fault indication and visual display of breaker operating states: (1)+ (2) tripping due to short circuit (2) tripping due to overload and general trip condition (3) overload early warning signal in the event that the long time response setting is about to be exceeded (i.e. useful for load shedding purposes)</p> <p>Each function signals via a pair of contacts (1 N.O. and 1 N.C.)</p> <p>Mounts directly onto lower portion of circuit breaker Required supply voltage: 24 - 230V, AC or DC</p>  	+M-NZM10 034801		M-NZM10 034946	

Notes:

¹⁾ Auxiliary contacts and signalling blocks are field installable.

Molded Case Circuit Breakers and Switches

Shunt Trips for Type NZM10-...-NA

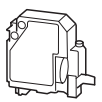


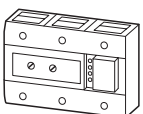
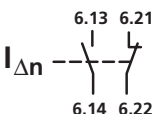
Rated Actuating Voltage U_s	Type Suffix	Price	Type	Price
V	Article No. when ordered with basic device	see price list	Article No. when ordered separately ¹⁾	see price list
Shunt trips Typically used to electrically trip the device from a remote location. Rated for 100% continuous duty. Shunt trips cannot be mounted together with undervoltage trips.				
				
	AC/DC			
	24	+A-NZM10(24V) 036641	A-NZM10(24V) 036642	
	48	+A-NZM10(48V) 036643	A-NZM10(48V) 036644	
	60	+A-NZM10(60V) 036645	A-NZM10(60V) 036646	
	110 – 120	+A-NZM10(110-120V) 036647	A-NZM10(110-120V) 036648	
	125 – 130	+A-NZM10(125-130V) 036649	A-NZM10(125-130V) 036650	
	208 – 215	+A-NZM10(208-215V) 036651	A-NZM10(208-215V) 036652	
	220 – 240	+A-NZM10(220-240V) 036653	A-NZM10(220-240V) 036654	
	380 – 415	+A-NZM10(380-415V) 036655	A-NZM10(380-415V) 036656	
	440 – 480	+A-NZM10(440-480V) 036657	A-NZM10(440-480V) 036658	
	500	+A-NZM10(500V) 036659	A-NZM10(500V) 036660	
	600	+A-NZM10(600V) 036661	A-NZM10(600V) 036662	

Notes

¹⁾ Shunt trips are field installable.

Molded Case Circuit Breakers and Switches

Undervoltage Trips and Ground Fault Modules for Type NZM10-...-NA

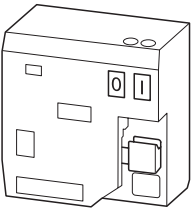
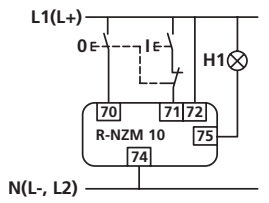
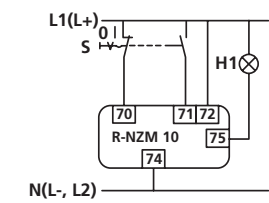
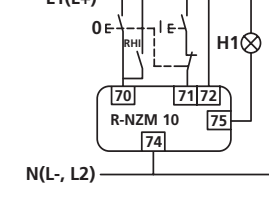

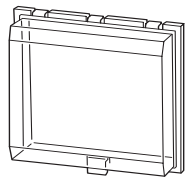

Rated Actuating Voltage U_s		Type Suffix	Price	Type	Price		
V		Article No. when ordered with basic device	see price list	Article No. when ordered separately ¹⁾	see price list		
<p>Undervoltage trips, undelayed response Electrically trip the device open under power loss (when supply voltage drops below 35 - 70 % of rated trip coil value) and can be used for control interlocking purposes, e.g. to disconnect the main switch in Emergency-Stop circuits. They are rated for continuous duty. Undervoltage trips cannot be mounted together with shunt trips.</p>							
							
	AC	24	+U-NZM10(24VAC) 036665	U-NZM10(24VAC) 036666			
		48	+U-NZM10(48VAC) 036667	U-NZM10(48VAC) 036668			
		60	+U-NZM10(60VAC) 036669	U-NZM10(60VAC) 036670			
		110 - 120	+U-NZM10(110-120VAC) 036671	U-NZM10(110-120VAC) 036672			
		125 - 130	+U-NZM10(125-130VAC) 036673	U-NZM10(125-130VAC) 036674			
		208 - 215	+U-NZM10(208-215VAC) 036675	U-NZM10(208-215VAC) 036676			
		220 - 240	+U-NZM10(220-240VAC) 036677	U-NZM10(220-240VAC) 036678			
		380 - 415	+U-NZM10(380-415VAC) 036679	U-NZM10(380-415VAC) 036680			
		440 - 480	+U-NZM10(440-480VAC) 036681	U-NZM10(440-480VAC) 036682			
		500	+U-NZM10(500VAC) 036683	U-NZM10(500VAC) 036684			
		600	+U-NZM10(600VAC) 036686	U-NZM10(600VAC) 036685			
			DC	24	+U-NZM10(24VDC) 036689	U-NZM10(24VDC) 036690	
				48	+U-NZM10(48VDC) 036691	U-NZM10(48VDC) 036692	
				60	+U-NZM10(60VDC) 036693	U-NZM10(60VDC) 036694	
110 - 120	+U-NZM10(110-120VDC) 036695			U-NZM10(110-120VDC) 036696			
125 - 130	+U-NZM10(125-130VDC) 036697			U-NZM10(125-130VDC) 036698			
208 - 215	+U-NZM10(208-215VDC) 036699			U-NZM10(208-215VDC) 036700			
220 - 240	+U-NZM10(220-240VDC) 036701			U-NZM10(220-240VDC) 036702			
<p>Ground fault trip module</p> <p>No outside power source required Ground fault trip current adjustable in steps: $I_{\Delta n} = 80, 100, 130, 160, 200, 240, 280, 320, 360, 400$ A, with adjustable delay time: $t_v = 0, 60, 150, 200, 300, 500, 750, 1000$ ms</p>							
 							
Module is attached directly to the circuit breaker Ground fault trip current is signalled directly to the electronic circuitry			+TV-NZM10 095126	TV-NZM10 034811			
Module is mounted separately. Ground fault trip current is signalled directly to a shunt or undervoltage trip via auxiliary contacts			-	TV-NZM10/E 034813			

Notes:

¹⁾ Accessories are field installable


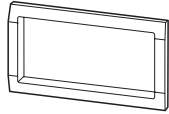
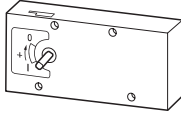
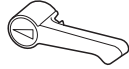
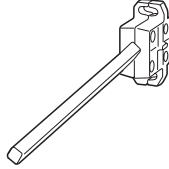

Molded Case Circuit Breakers and Switches

Remote Control Drives and Accessories for Type NZM10-...-NA

Rated Actuating Voltage U_s V	Type Suffix Article No. when ordered with basic device	Type Article No. when ordered separately ¹⁾	Price see price list
Remote control drive			
To be mounted on top of circuit breakers and molded case switches Switching times: ON 60 ms, OFF 30 ms Manual switching possible			
			
AC	110	+R-NZM10(110-120VAC) 027622	R-NZM10(110-120VAC) 027619
	220	+R-NZM10(220-240VAC) 027620	R-NZM10(220-240VAC) 027617
	380	+R-NZM10(380-415VAC) 027621	R-NZM10(380-415VAC) 027618
DC	24	+R-NZM10(24VDC) 036633	R-NZM10(24VDC) 036634
	48	+R-NZM10(48-60VDC) 027625	R-NZM10(48-60VDC) 027628
	110	+R-NZM10(110-130VDC) 047253	R-NZM10(110-130VDC) 027629
	220	+R-NZM10(220-240VDC) 027627	R-NZM10(220-240VDC) 027630
 <p>L1(L+) 0 E I E H1 R-NZM 10 70 71 72 74 75 N(L-, L2)</p> <p>3-wire control</p>  <p>L1(L+) 0 1 S H1 R-NZM 10 70 71 72 74 75 N(L-, L2)</p> <p>2-wire control</p>  <p>L1(L+) 0 E RH I E H1 R-NZM 10 70 71 72 74 75 N(L-, L2)</p> <p>3-wire control with automatic reset to the OFF position after the switch has tripped.</p>			
Pushbutton operator			
For manual ON-OFF switching of encapsulated NZM10 breakers and switches equipped with a remote control drive			
			
Mounting depth 250 – 285 mm	–	MD-NZM10 034823	Not for use in conjunction with KVR2-NZM10 mechanical interlock
Mounting depth 285 – 400 mm	–	MDV-NZM10 034824	
Protective cover for door cutout			
Transparent cover to provide a panel cutout area with IP 54 protection			
			
	–	RTR-NZM10 034825	For use where the remote control drive protrudes from the cutout area of the enclosure door
Sealing plate			
Blocks off manual switching access of the remote control drive at the device			
			
	–	PL-NZM10 028907	Electrical switching from a remote location and manual tripping of the circuit breaker (push to trip feature) are not affected.

Molded Case Circuit Breakers and Switches

Accessories for Type NZM10-...-NA

	Type Suffix Article No. when ordered with basic device	Price see price list
Toggle switch interlock Permits the OFF position of the toggle operator to be locked with up to 3 padlocks (hasp thickness 6-8mm) 	+SVB-NZM10 034829	
Insulating cutout frame for use where the toggle switch protrudes from the enclosure. Provides degree of protection IP 40 	+RT-NZM10 094927	
Rotary drive mechanism converts ON and OFF switching from a vertical toggle movement to a rotary motion. 	+D-NZM10 034827	
Rotary handle black requires rotary drive mechanism 	+H10U-SW 044608	
Extension shaft can be cut to required length 	Mounting depth 175 – 400 mm +A-NZM10 051378 Mounting depth 260 – 600 mm +A600-NZM10 025373	
Maintenance handle for panel mounted switches push-fits onto the extension shaft 	for A-NZM10 +H10UZ 044757 for A600-NZM-10 +H12UZ 065794	

Molded Case Circuit Breakers and Switches


Accessories for NZM10-...-NA

Type Article No. when ordered separately ¹⁾	Price see price list	
SVB-NZM10 034948		
RT-NZM10 034828		Affixed from the rear with screws. Can be inscribed.
D-NZM10 034949		Required for the use of rotary and door coupling/ interlocking rotary handles. Can be locked in the OFF position with up to 3 padlocks. Hasp thickness, 4-8mm.
H10U-SW 044607		Suitable for open mount switches. No door interlocking or padlocking provisions.
A-NZM10 051377 A600-NZM10 047892		
H10UZ 044756		To actuate the device when the panel door is open
H12UZ 047427		

Notes:¹⁾ Accessories are field installable

Molded Case Circuit Breakers and Switches

Accessories for Type NZM10-...-NA

	Type Suffix Article No. when ordered with basic device	Price see price list
Handle for cover/door interlocking		
With cover interlocking and padlocking feature, Rotary drive mechanism required, Can be locked in the ON and OFF position with up to 3 padlocks		
black for standard main disconnect switch applications	+H10-SW-NA 097560	
		
red-yellow enables the switch to be used as Emergency-Stop disconnect	+RH10-NA 097620	
Switch position indicator		
Indicates position of switch (OFF, tripped or ON) when panel door is open		
	+SA-NZM10 045051	
Main disconnect switch assembly kits for CE marked control panels per IEC/EN 60 204-1		
Type NZM10-...-NA breakers and switches have dual UL/CSA and IEC/EN ratings. They are suitable for use as main disconnect switches in control panels that must be CE marked and designed to comply with the Machinery Directive standard EN 60 204-1.		
With black door interlocking rotary handle	+V-NZM10-SW 054138	
With red/yellow door interlocking rotary handle to apply the switch as Emergency-Stop according to IEC/EN 60 204-1, VDE 0113 part 1	+V-NZM10 025372	
Main disconnect warning plates		
"Main Switch - Open only in OFF Position"		
English	+ZS62-NZM10 027559	
French	+ZS63-NZM10 027560	
Warning plates also available in other languages	+ZS...NZM10 999976	
Blank plate (for engraving or printing)	+ZS60-NZM10 045054	

Molded Case Circuit Breakers and Switches

Accessories for NZM10-...-NA

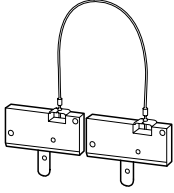
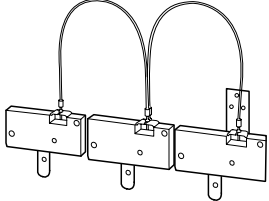
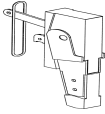
Type	Price	
Article No. when ordered separately ¹⁾	see price list	
H10-SW-NA 093193		Degree of protection: UL/NEMA 3R, 12; IEC IP 55 3 distinct handle positions: OFF - + (tripped) - ON
RH10-NA 093239		
SA-NZM10 045050		To be mounted on shaft of rotary drive
V-NZM10-SW 054150		Kit includes: • door interlocking rotary handle • rotary drive mechanism • extension shaft for 400mm mounting depth • external warning plate • black lightning symbol
V-NZM10 047893		
ZS62-NZM10 027579		Available languages: 61 German 72 Portuguese 64 Bulgarian 73 Romanian 65 Danish 74 Russian 66 Finnish 75 Swedish 67 Dutch 76 Serbo-Croatian 68 Italian 77 Spanish 69 Greek 78 Czech 70 Norwegian 79 Turkish 71 Polish 80 Hungarian 81 Afrikaans To obtain warning plates in other languages, insert the language code number into the type reference Example Main disconnect warning plate in Finnish: ZS66-NZM10
ZS63-NZM10 027580		
ZS...NZM10 999977		
ZS60-NZM10 045055		

Notes:

¹⁾ Accessories are field installable

Molded Case Circuit Breakers and Switches

Accessories for Type NZM10-...-NA



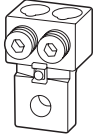

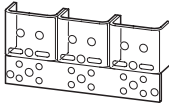
	Type Article No. when ordered separately ¹⁾	Price see price list																		
Mechanical interlocks																				
<p>For mechanically interlocking two NZM10 circuit breakers or molded case switches mounted in a panel. Fits toggle operators or rotary drive mechanisms</p> 																				
For two circuit breakers	KV2-NZM10 034831																			
For two circuit breakers equipped with R-NZM10 remote control drives.	KVR2-NZM10 034832	R-NZM10 must be electrically interlocked at the same time																		
For mechanically interlocking three NZM10 circuit breakers or molded case switches mounted in a panel. Fits toggle operators or rotary drive mechanisms	KV3-NZM10 047891																			
																				
<p>For emergency power supplies: Mechanically interlocking two incoming supply circuit breakers with one emergency supply breaker. Fits toggle operators or rotary drive mechanisms</p>	KVA3-NZM10 034833	<p>Possible switching positions</p> <table border="1"> <thead> <tr> <th>Incomer 1</th> <th>Emergency</th> <th>Incomer 2</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>1</td> <td>V</td> <td>0</td> </tr> <tr> <td>1</td> <td>V</td> <td>1</td> </tr> <tr> <td>0</td> <td>V</td> <td>1</td> </tr> <tr> <td>V</td> <td>1</td> <td>V</td> </tr> </tbody> </table> <p>0 = OFF V = interlocked 1 = ON</p>	Incomer 1	Emergency	Incomer 2	0	0	0	1	V	0	1	V	1	0	V	1	V	1	V
Incomer 1	Emergency	Incomer 2																		
0	0	0																		
1	V	0																		
1	V	1																		
0	V	1																		
V	1	V																		
Vertical handle assembly kit, UL 4X																				
<p>Each kit includes:</p> <ul style="list-style-type: none"> • a flange mounted vertical handle • a flexible cable • a mechanical linkage operator 																				
																				
For 36" cable length	SH-36-4X-NZM10 171725																			
For 48" cable length	SH-48-4X-NZM10 171726																			

Note:

¹⁾ Accessories are field installable

Molded Case Circuit Breakers and Switches

Terminals for Type NZM10-...-NA

	Maximum Rated Current	Conductor Cross-section Range and Material	Type Suffix Article No. when ordered with basic device ¹⁾	Price see price list	Type Article No. individual terminals supplied separately for field mounting	Price see price list
Terminals						
Supplied as						
<ul style="list-style-type: none"> • 1 set of 3 terminals when ordered with basic device • 1 terminal when ordered separately 						
Single cable clamp terminal Not supplied with terminal cover	350	250 - 500 kcmil Cu only	+K300-NZM10-O 093732		K300-NZM10 034937	
			+K300-NZM10-U 093731		-	
Double cable clamp terminal Not supplied with terminal cover	500	2 x AWG 3/0 - 250 kcmil Cu only	+K2X120-NZM10-O 093734		K2X120-NZM10 034938	
			+K2X120-NZM10-U 093733		-	
Supplied with 3 terminal covers H-NZM10 and an insulating plate onto which the circuit breaker is mounted	600	2 x AWG 2 - 500 kcmil Cu/Al	+K2X240IP-NZM10-O 063925		-	
			+K2X240IP-NZM10-U 063923		-	
Supplied with 1 terminal cover (type H-NZM10) and an insulating plate onto which the circuit breaker is mounted					K2X240IP-NZM10 ²⁾ 063927	
Supplied with 1 terminal cover (type H-NZM10)					K2X240-NZM10 ²⁾ 034939	
Terminal covers						
suitable for cable lug terminals						
Supplied as standard with K2 x 240(IP)						
Supplied as						
<ul style="list-style-type: none"> • 1 set of 3 terminal covers when ordering with basic device • 1 terminal cover when ordering separately 						
			+H-NZM10-O 025348		H-NZM10 047889	
			+H-NZM10-U 025347		-	
One piece, 3 pole terminal cover, suitable for K300 and K2 x 120			+HH-NZM10-O 047578		HH-NZM10 043254	
			+HH-NZM10-U 047479		-	

Notes

¹⁾ When ordering with the device, the type suffix specifies which side should be equipped with terminals
 -O = mounted on the top
 -U = mounted on the bottom

²⁾ Complete set of three (for top or bottom) type K2x240(IP) terminals for field installation consists of the following:
 - Quantity of one K2X240IP terminal which is supplied with one H-NZM10 terminal cover and one insulating plate
 - Quantity of two K2X240 terminals, which are supplied each with one H-NZM10 terminal cover