





Molded Case Circuit Breakers and Disconnect Switches Auxiliary Contacts for NZM(H)9-...

Contacts	Type Suffix	Price
N.O. = normally open N.C. = normally closed	Article No. when ordering with basic device	see price list
N.O. N.C.		
Standard auxiliary contacts		
 2 2	+NHI22-NZM9 091579	
Early-make auxiliary contacts		
 2 form C (change over) contacts	+VHI002-NZM9 093952	
Handle-operated early-make auxiliary contacts		
 2 form C (change over) contacts	+AHI002-NZM9 044120	
Trip-indicating auxiliary contacts		
 2 form C (change over) contacts	+RHI002-NZM9 046493	

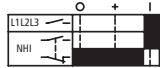
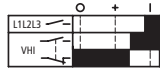
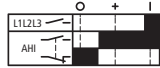
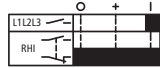
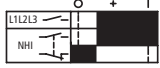
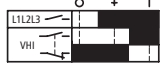
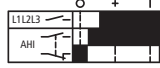

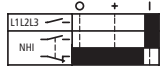
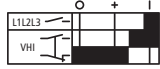
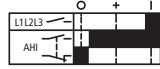

Notes

Combination possibilities of auxiliary contacts:

NHI	VHI	AHI	RHI
●	●	-	-
●	-	●	-
●	-	-	●

Dots in each row represent the types which can be combined together. Dashes indicate incompatibility.



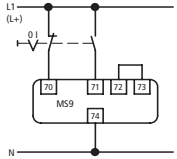
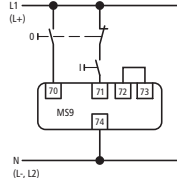
Auxiliary contacts must be ordered with the device.

	NHI	VHI	AHI	RHI
	NHI standard auxiliary contacts operate simultaneously with the main contacts.	VHI early make auxiliary contacts lead the main contacts when switching ON as well as switching OFF.	AHI handle operated early-make auxiliary contacts operate in advance of the main contacts, shortly after the handle has left the OFF position.	RHI trip-indicating auxiliary contacts work independently of the normal ON and OFF operations of the device, switching only when the device has tripped due to overloads, overcurrents or other tripping functions such as voltage trips.
	Typically used for signalling or switching auxiliary circuits such as a control circuit.	Typically used for load shedding purposes or in conjunction with voltage trips in control circuits.	Typically used to convert the manual actuation of the switch into a control function for circuit interlocking purposes.	
Position of auxiliary contacts	Same as main contacts	Same contact position in both OFF and Tripped position of the device	Same contact position in both ON and Tripped position of the device	Operates only when device is tripped
Main contacts ■ closed □ open				
Switching ON ○ →				
Switching OFF ○ ←				
Tripped position + ←				

Molded Case Circuit Breakers and Disconnect Switches





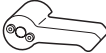
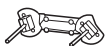
Voltage Trips, Motor Operators for NZM(H)9-...

Circuit Breakers, Disconnect Switches, Molded Case Switches

Rated Control Voltage		Type Suffix	Price	Notes
V/Hz		Article No. to be ordered with device only	see price list	
Shunt trips				
100% continuous duty rating				
 <p>If desired, automatic disconnection of the shunt trip coil can be achieved by using the NHI auxiliary contact in series with the coil. Shunt trips cannot be mounted together with undervoltage trips.</p>				
	AC	120V 60Hz	+A-NZM9(120V60HZ) 057267	Shunt trips are typically used to electrically trip the device from a remote location
		208V 60Hz	+A-NZM9(208V60HZ) 057750	
		240V 60Hz	+A-NZM9(240V60HZ) 057982	
		480V 60Hz	+A-NZM9(480V60HZ) 059333	
		600V 60Hz	+A-NZM9(600V60HZ) 059641	
intermittent duty	DC	24 V	+A-NZM9(24VDC) 060081	Intermittent operation requires coil clearing auxiliary contact NHI22-NZM9
Undervoltage trips, non-delayed				
Continuous duty rating				
 <p>Power can be applied to the undervoltage trip using VHI early-make auxiliary contacts in series with the undervoltage trip coil. Cannot be mounted together with shunt trips.</p>				
	AC	120V 60Hz	+U-NZM9(120V60HZ) 048136	Undervoltage trips will electrically trip the device open under power loss and can be used for control interlocking purposes, e.g. to disconnect the main switch in Emergency-Stop circuits.
		208V 60Hz	+U-NZM9(208V60HZ) 048287	
		240V 60Hz	+U-NZM9(240V60HZ) 048427	
		480V 60Hz	+U-NZM9(480V60HZ) 048729	
		600V 60Hz	+U-NZM9(600V60HZ) 048841	
	DC	24 V	+U-NZM9(24VDC) 049868	
Motor operator for quick-acting switches				
Closing time on receipt of signal ≤ 60 ms Time lag between signals must be at least 3 s.				
	AC	120V 60Hz	+MS9(120V60HZ) 015644	Can only be supplied with device. With three wire control, manual operation possible with handle.
		208/220V 60Hz	+MS9(208/220V60HZ) 002448	
<p>Two-wire control</p> <p>Maintain pilot command min. 1.5s</p> 				
<p>Three-wire control</p> <p>$O \geq 1s$ $I \geq 30ms$</p> 				

Molded Case Circuit Breakers and Disconnect Switches

Accessories for NZM(H)9-...

	Color of handle	for use with	Type Suffix Article No. when ordering with basic device	Type Article No. when ordering separately ¹⁾	Price see price list
Handle for open or panel mounted devices					
Fastens to shaft, not padlockable					
					
	gray	NZM(H)9... N9...	+H9U 042716	H9U 017256	
	black	NZM9... N9...	+H9U-SW 065009	H9U-SW 034175	
Handle for cover/door interlocking					
Degree of protection UL/NEMA 3R, 12; IEC IP 55 Door coupling rotary handle. For front mounting in doors and covers. Can be locked in the OFF position with up to 3 padlocks (hasp thickness 6 - 8mm). Door/cover interlocking supplied standard set in OFF position. Can be field modified for setting in ON position. 3 distinct handle positions: OFF - + (tripped) - ON					
					
	gray	NZM(H)9... N9...	+H9-NA 005349	H9-NA 012510	
	black	NZM(H)9-... N9...	+H9-SW-NA 106026	H9-SW-NA 088864	
for Emergency-Stop function	red-yellow	NZM(H)9-... N9...	+RH9-NA 095462	RH9-NA 033993	
Extension shaft					
Mounting depth 190 – 400 mm, extends shaft length by 223 mm. Only one extension shaft possible. Can also be used with mechanical interlock.					
					
		NZM(H)9-... N9...	+A-NZM9 044155	A-NZM9 033762	
Padlocking accessory					
Enables the device to be padlocked OFF when the panel door is open. Accommodates up to 3 padlocks (hasp thickness 6 - 8 mm). A limit switch (Type AT0) can also be installed for signalling or electrical interlocking purposes.					
					
		NZM(H)9-... N9...	+SVB-NZM9 032161	SVB-NZM9 050626	
Switch position indicator					
Indicates position of switch when panel door is open					
		NZM(H)9-... N9...	+SA-NZM9 041782	SA-NZM9 048240	
Maintenance handle					
To actuate the device when the panel door is open					
					
		NZM(H)9-... N9...	+H9UZ 043929	H9UZ 043927	
Mechanical interlock					
For mechanical interlocking of two devices. Requires two handles, one for each switch. Order separately					
					
		NZM(H)9-... N9...	+KV-2NZM9 052570	KV-2NZM9 076610	



Notes:

¹⁾ Accessories are field installable.

Molded Case Circuit Breakers and Disconnect Switches

Accessories for NZM(H)9-...

Circuit Breakers, Disconnect Switches, Molded Case Switches

Color of handle	for use with	Type Suffix Article No. when ordered with basic device	Type Article No. when ordered separately ¹⁾	Price see price list
Rear operation shafts				
For side panel mounting where device is only accessible from the rear (e.g. sides of enclosure panels). Must be combined with H...R rear operation handle. Factory installed only. Order with device				
	NZM(H)9-... N9...	+R-NZM9 002966	-	
Operating handle for rear operation				
Used with rear operation shaft. Degree of protection UL/NEMA 3R, 12; IEC IP 55 Can be locked in the OFF position with up to 3 padlocks (hasp thickness 6 - 8mm). No cover/door interlocking provisions. 3 distinct handle positions: OFF - + (tripped) - ON				
	gray	NZM(H)9-... N9...	+H9-R-NA 005350	H9-R-NA 061924
	black	NZM(H)9-... N9...	+H9-R-SW-NA 106025	H9-R-SW-NA 201666
for Emergency-Stop functions	red-yellow	NZM(H)9-... N9...	+RH9-R-NA 095584	RH9-R-NA 071416
Legend plate (for mounting with operating handle)				
Silver-colored				
				
Specify desired text Black lettering; height of letters 3.5, 5 and 7mm	NZM(H)9-... N9...	+ZSSOND-NZM9 046528	ZSSOND-NZM9 067357	
Blank for engraving or printing	NZM(H)9-... N9...	+ZS60-NZM9 048901	ZS60-NZM9 067286	
Main disconnect warning plate				
Silver-colored, black lettering, English inscription: "Main Switch - Open only in OFF Position"				
English	NZM(H)9-... N9...	+ZS62-NZM9 013314	ZS62-NZM9 093994	
French		+ZS63-NZM9 015687	ZS63-NZM9 096367	
For other languages, see below ²⁾		+ZS...-NZM9 954925	ZS...-NZM9 915219	

Notes:

¹⁾ Accessories shown in this column are field installable

²⁾ Engraved main disconnect warning plates are available in the following languages:





- | | | | |
|--------------|---------------|-------------------|--------------|
| 61 German | 68 Italian | 73 Romanian | 78 Czech |
| 64 Bulgarian | 69 Greek | 74 Russian | 79 Turkish |
| 65 Danish | 70 Norwegian | 75 Swedish | 80 Hungarian |
| 66 Finnish | 71 Polish | 76 Serbo-Croatian | 81 Afrikaans |
| 67 Dutch | 72 Portuguese | 77 Spanish | |

Insert language key number into type number

Example:
Warning plate in Italian language:
ZS 68-NZM 9

Molded Case Circuit Breakers and Disconnect Switches

Accessories for NZM(H)9-...

	Type Suffix Article No. when ordered with basic device	Type Article No. when ordered separately ¹⁾	Price see price list
Main disconnect switch assembly kits for CE marked control panels per IEC/EN 60 204-1 <p>NZMH9-... switches with dual UL/CSA and IEC/EN ratings 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. The kits shown below, ordered with the device or separately, will provide the necessary accessories to fulfill the main disconnect switch function for these applications. Note: in cases where the main disconnect switch also fulfills the Emergency-Stop function, please specify kits containing red handle and yellow backing plate assemblies.</p>			
<ul style="list-style-type: none"> • Main disconnect handle with door/cover interlock for front mounting, • Red color handle with yellow backing plate for Emergency-Stop function, • Terminal cover • Main switch marking plate 	+V-NZM9 058393	V-NZM9 091003	
<ul style="list-style-type: none"> • Main disconnect handle for rear operated switches, red in color with yellow backing plate for Emergency-Stop function, • supplied with steel plate for panel side mounting, • Terminal cover • Main switch marking plate 	+EA-NZM9 060766	EA-NZM9 045695	
Main disconnect switch assembly kit, black			
<p>For front mounting Same as V-NZM9, except that the main disconnect handle is black in color with silver backing plate for standard, non-Emergency-Stop function</p> 	+V-NZM9-SW 054137	V-NZM9-SW 054149	
<p>For rear operated switches Same as EA-NZM9, except that the main disconnect handle is black in color with silver backing plate for standard, non-Emergency-Stop function</p> 	+EA-NZM9-SW 054146	EA-NZM9-SW 054158	

Notes:

¹⁾ Kits are field-installable

Molded Case Circuit Breakers and Disconnect Switches
 Accessories for NZM(H)9-...

Circuit Breakers,
 Disconnect Switches, Molded Case Switches

	Type Suffix Article No. when ordered with basic device	Type Article No. when ordered separately ¹⁾	Price see price list
Control circuit tap-off terminals Supplementary terminals attached to main terminals. 3 connections top and bottom. Factory addition only, must be ordered with device	+ST 052918	–	
Terminal cover Provides shock hazard protection in the area of the field wiring power terminals. Can be used at top or bottom, one cover per side. Mandatory requirement on the supply side of main disconnect switches to provide protection against accidental contact with line side feed.	+H-NZM9 063139	H-NZM9 012507	

Notes: ¹⁾ Accessories are field installable