



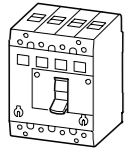
**NZM7 4-pole circuit-breakers**  
System protection

Rating data		Setting range	Normal switching capacity 35 kA at 400 V 50/60 Hz	Type	Price	Std. pack
Rated uninterrupted current	Overload releases					
$I_u$ A	$I_r$ A					
		Non-delayed				
		$I_{rm}$ A				
						

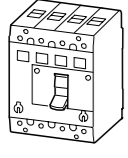
**Circuit-breakers for system protection, 4-pole**

Adjustable overload releases  
Adjustable non-delayed short-circuit releases

With terminals

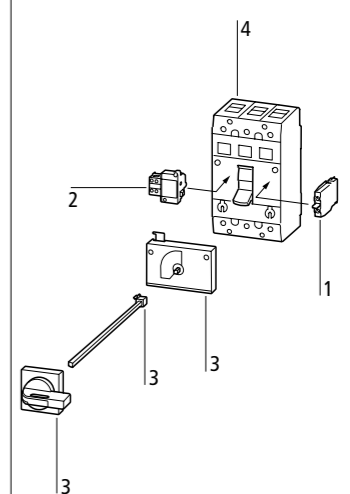
With 100 % overload release in the neutral pole	40	25 – 40	$9 - 12 \times I_u$	NZM74-40N 200341	1 off
	63	40 – 63	$6 - 12 \times I_u$	NZM74-63N 200342	1 off
	80	63 – 80		NZM74-80N 200343	
	100	80 – 100		NZM74-100N 200344	
	125	80 – 125		NZM74-125N 200346	
	160	125 – 160		NZM74-160N 200348	
	200	160 – 200		NZM74-200N 200350	
With 60 % overload release in the neutral pole	250	200 – 250	$6 - 10 \times I_u$	NZM74-250N 200352	1 off
	160	125 – 160	$6 - 12 \times I_u$	NZM74-160/100N 200349	
	200	160 – 200	$6 - 12 \times I_u$	NZM74-200/120N 200351	
With 60 % overload release in the neutral pole	250	200 – 250	$6 - 10 \times I_u$	NZM74-250/160N 200355	1 off

With M8 bolt connection and cable lug cover

With 100 % overload release in the neutral pole	40	25 – 40	$9 - 12 \times I_u$	NZM74-40N-M8 200427	1 off
	63	40 – 63	$6 - 12 \times I_u$	NZM74-63N-M8 200428	1 off
	80	63 – 80		NZM74-80N-M8 208688	
	100	80 – 100		NZM74-100N-M8 200430	
	125	80 – 125		NZM74-125N-M8 200431	
	160	125 – 160		NZM74-160N-M8 200432	
	200	160 – 200		NZM74-200N-M8 200434	
With 60 % overload release in the neutral pole	250	200 – 250	$6 - 10 \times I_u$	NZM74-250N-M8 200436	1 off
	160	125 – 160	$6 - 12 \times I_u$	NZM74-160/100N-M8 200433	
	200	160 – 200	$6 - 12 \times I_u$	NZM74-200/120N-M8 200435	
With 60 % overload release in the neutral pole	250	200 – 250	$6 - 10 \times I_u$	NZM74-250/160N-M8 200437	1 off

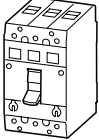
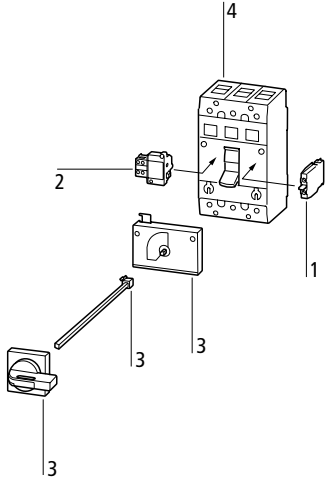
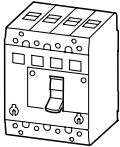
**NZM7 4-pole circuit-breakers**  
System protection

Medium switching capacity 65 kA at 400 V 50/60 Hz		Std. pack	High switching capacity 100 kA at 400 V 50/60 Hz		Std. pack	Notes
Type	Price		Type	Price		
Article no.	See Price List		Article no.	See Price List		

NZM74-40S 200300		1 off	NZM74-40H 200326		1 off	 <p><b>Accessories</b></p> <table border="1"> <thead> <tr> <th>Accessories</th> <th>Seite</th> </tr> </thead> <tbody> <tr> <td>1 Auxiliary contacts</td> <td>11/18</td> </tr> <tr> <td>2 Voltage release</td> <td>11/20</td> </tr> <tr> <td>3 Operating elements</td> <td>11/30</td> </tr> <tr> <td>4 Connection method and combinations of screw- and clamp-type terminals</td> <td>11/36</td> </tr> </tbody> </table>	Accessories	Seite	1 Auxiliary contacts	11/18	2 Voltage release	11/20	3 Operating elements	11/30	4 Connection method and combinations of screw- and clamp-type terminals	11/36
Accessories	Seite															
1 Auxiliary contacts	11/18															
2 Voltage release	11/20															
3 Operating elements	11/30															
4 Connection method and combinations of screw- and clamp-type terminals	11/36															
NZM74-63S 200312			NZM74-63H 200327													
NZM74-80S 200313			NZM74-80H 200328													
NZM74-100S 200314			NZM74-100H 200329													
NZM74-125S 200315			NZM74-125H 200331													
NZM74-160S 200316			NZM74-160H 200332													
NZM74-200S 200319			NZM74-200H 200334													
NZM74-250S 200291			NZM74-250H 200337													
NZM74-160/100S 200317			NZM74-160/100H 200333													
NZM74-200/120S 200322			NZM74-200/120H 200336													
NZM74-250/160S 200323			NZM74-250/160H 200338													
NZM74-40S-M8 200445		1 off	NZM74-40H-M8 200456		1 off											
NZM74-63S-M8 200446			NZM74-63H-M8 200457													
NZM74-80S-M8 200447			NZM74-80H-M8 200458													
NZM74-100S-M8 200448			NZM74-100H-M8 200459													
NZM74-125S-M8 200449			NZM74-125H-M8 200460													
NZM74-160S-M8 200450			NZM74-160H-M8 200461													
NZM74-200S-M8 200452			NZM74-200H-M8 200463													
NZM74-250S-M8 200454			NZM74-250H-M8 200465													
NZM74-160/100S-M8 200451			NZM74-160/100H-M8 200462													
NZM74-200/120S-M8 200453			NZM74-200/120H-M8 200464													
NZM74-250/160S-M8 200455			NZM74-250/160H-M8 200466													

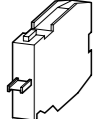


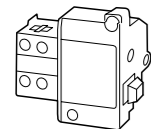

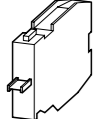


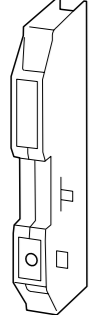



## P7 and NZM7 3- and 4-pole switch-disconnectors

Rating data			Cannot be tripped remotely		Voltage release can be fitted for remote tripping		Std. pack	Notes
Rated uninterrupted current	Short-circuit protection		Type Article no.	Price See Price List	Type Article no.	Price See Price List		
$I_u$	Max. fuse							
A	A gG/gL							
<b>Switch-disconnectors, 3-pole</b>								
 With terminals	63	160	<b>P7-63</b> 049058		<b>NZM7-63</b> 049064		1 off	Rated uninterrupted current up to 250 A Main switch characteristics according to IEC/EN 60204-1 Isolating characteristics according to IEC/EN 60947-3 Protection against accidental contact according to IEC 536 NZM7 switch-disconnectors can be tripped remotely with U-/A-NZM7 voltage releases. RHI trip-indicating auxiliary contacts can be used to indicate the switching status.
	100		<b>P7-100</b> 049059		<b>NZM7-100</b> 049065			
	125		<b>P7-125</b> 049060		<b>NZM7-125</b> 049066			
	160	<b>P7-160</b> 049061		<b>NZM7-160</b> 049067				
	200	250	<b>P7-200</b> 049062		<b>NZM7-200</b> 049068			
	250	250	<b>P7-250</b> 049063		<b>NZM7-250</b> 049069			
With M8 bolt connection and cable lug cover	63	160	<b>P7-63-M8</b> 065871		<b>NZM7-63-M8</b> 065877		1 off	
	100		<b>P7-100-M8</b> 065872		<b>NZM7-100-M8</b> 065878			
	125		<b>P7-125-M8</b> 065873		<b>NZM7-125-M8</b> 065879			
	160	<b>P7-160-M8</b> 065874		<b>NZM7-160-M8</b> 065880				
	200	250	<b>P7-200-M8</b> 065875		<b>NZM7-200-M8</b> 065881			
	250	250	<b>P7-250-M8</b> 065876		<b>NZM7-250-M8</b> 065882			
<b>Switch-disconnectors, 4-pole</b>								
 With terminals	63	160	<b>P74-63</b> 200409		<b>NZM74-63</b> 200371		1 off	<b>Accessories</b> <span style="float:right"><b>Seite</b></span> 1 Auxiliary contacts 11/18 2 Voltage releases 11/20 3 Operating elements 11/30 4 Connection method and combinations of screw- and clamp-type terminals 11/36
	100		<b>P74-100</b> 200410		<b>NZM74-100</b> 200372			
	125		<b>P74-125</b> 200411		<b>NZM74-125</b> 200373			
	160	<b>P74-160</b> 200412		<b>NZM74-160</b> 200374				
	200	250	<b>P74-200</b> 200413		<b>NZM74-200</b> 200375			
	250	250	<b>P74-250</b> 200414		<b>NZM74-250</b> 200376			
With M8 bolt connection and cable lug cover	63	160	<b>P74-63-M8</b> 200416		<b>NZM74-63-M8</b> 200421		1 off	
	100		<b>P74-100-M8</b> 200417		<b>NZM74-100-M8</b> 200422			
	125		<b>P74-125-M8</b> 200415		<b>NZM74-125-M8</b> 200423			
	160	<b>P74-160-M8</b> 200418		<b>NZM74-160-M8</b> 200424				
	200	250	<b>P74-200-M8</b> 200419		<b>NZM74-200-M8</b> 200425			
	250	250	<b>P74-250-M8</b> 200420		<b>NZM74-250-M8</b> 200426			



**Accessories for NZM7 and P7**  
Auxiliary switches, trip-indicating auxiliary contacts

	Contact sequence	Type suffix Article no. When ordered with basic unit	Price See Price List	Std. pack
<b>NHI standard auxiliary contacts</b>				
Switching with the main contacts, used for indication and interlock functions. Two standard auxiliary contacts can be clipped onto the circuit-breaker/switch-disconnector 		<b>+EK10</b> 051082		1 off
		<b>+EK01</b> 051083		1 off
<b>VHI early-make auxiliary contacts</b>				
For interlock and load-shedding circuits 		<b>+VHI-NZM7</b> 051085		1 off
<b>RHI trip-indicating auxiliary contacts</b>				
General trip indication 1 RHI trip-indicating auxiliary contact as make or break contact insertable in the circuit-breaker/switch-disconnector. 		<b>+EK10</b> 051082		1 off
		<b>+EK01</b> 051083		1 off
<b>NAGM trip-indicating auxiliary contact</b>				
With short-circuit indicator and standard auxiliary contact, allows a differential fault message:  RHI: Tripping through voltage release, overload or short-circuit AGM: Tripping through short-circuit NHI: Position of the main contacts 		<b>+NAGM-NZM7</b> 051087		1 off

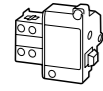

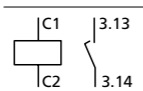
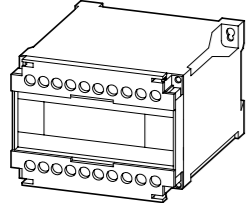
**Accessories for NZM7 and P7**  
Auxiliary switches, trip-indicating auxiliary contacts

Type Article no. When ordered separately	Price See Price List	Std. pack	Notes
<b>EK10</b> 027039		20 off	Auxiliary contacts and voltage releases can be combined as follows: In addition to NHI (2 × EK...) and RHI (1 × EK...), a VHI, A, AVHI, U or U(V)HI can also be optionally installed.
<b>EK01</b> 031785		20 off	
<b>VHI-NZM7</b> 051084		1 off	Cannot be used in conjunction with R-NZM7 remote operators.
<b>EK10</b> 027039		20 off	
<b>EK01</b> 031785		20 off	
			Manual reset of the circuit-breaker after a short-circuit trip: After a short-circuit, the red short-circuit indicator must be reset by hand before the circuit-breaker is restarted.



## Accessories for NZM7 and P7

### Shunt releases

Contact sequence	Rated control voltage	Type suffix Article no. When ordered with basic unit	Price See Price List	Std. pack
<p><b>Shunt releases</b></p> <p>For fitting in NZM circuit-breakers or NZM switch-disconnectors, for immediate disconnection of NZM circuit-breakers/NZM switch-disconnectors after voltage is applied</p> 				
Without early-make auxiliary contacts				
	AC/DC	12	<b>+A-NZM7(12V)</b> 027640	1 off
	AC/DC	24	<b>+A-NZM7(24V)</b> 027641	
	AC/DC	48	<b>+A-NZM7(48V)</b> 027642	
	AC/DC	60	<b>+A-NZM7(60V)</b> 027643	
	AC/DC	110 – 120	<b>+A-NZM7(110-120V)</b> 027644	
	AC/DC	125 – 130	<b>+A-NZM7(125-130V)</b> 027304	
	AC/DC	208 – 215	<b>+A-NZM7(208-215V)</b> 027305	
	AC/DC	220 – 240	<b>+A-NZM7(220-240V)</b> 026469	
	AC/DC	380 – 415	<b>+A-NZM7(380-415V)</b> 027306	
	AC/DC	440 – 480	<b>+A-NZM7(440-480V)</b> 027307	
	AC/DC	500	<b>+A-NZM7(500V)</b> 027308	
	With early-make auxiliary contacts			
	AC/DC	12	<b>+AVHI-NZM7(12V)</b> 028897	1 off
	AC/DC	24	<b>+AVHI-NZM7(24V)</b> 028898	
	AC/DC	48	<b>+AVHI-NZM7(48V)</b> 028899	
	AC/DC	60	<b>+AVHI-NZM7(60V)</b> 028900	
	AC/DC	110 – 120	<b>+AVHI-NZM7(110-120V)</b> 028901	
	AC/DC	125 – 130	<b>+AVHI-NZM7(125-130V)</b> 028902	
	AC/DC	208 – 215	<b>+AVHI-NZM7(208-215V)</b> 028903	
	AC/DC	220 – 240	<b>+AVHI-NZM7(220-240V)</b> 026470	
	AC/DC	380 – 415	<b>+AVHI-NZM7(380-415V)</b> 028904	
	AC/DC	440 – 480	<b>+AVHI-NZM7(440-480V)</b> 028905	
	AC/DC	500	<b>+AVHI-NZM7(500V)</b> 028906	
	Capacitor unit In conjunction with 230 V shunt release			
				

## Accessories for NZM7 and P7

### Shunt releases

Type Article no. When ordered separately	Price See Price List	Std. pack	Notes
<b>A-NZM7(12V)</b> 027360		1 off	Suitable for uninterrupted operation. Can be installed in the NZM circuit-breaker and NZM switch-disconnector. Universal version 0 – 400 Hz AC/DC.
<b>A-NZM7(24V)</b> 027361			
<b>A-NZM7(48V)</b> 027362			
<b>A-NZM7(60V)</b> 027363			
<b>A-NZM7(110-120V)</b> 027364			
<b>A-NZM7(125-130V)</b> 028831			
<b>A-NZM7(208-215V)</b> 028832			
<b>A-NZM7(220-240V)</b> 026471			
<b>A-NZM7(380-415V)</b> 028833			
<b>A-NZM7(440-480V)</b> 028834			
<b>A-NZM7(500V)</b> 028835			
With early-make auxiliary contacts			
<b>AVHI-NZM7(12V)</b> 028836		1 off	Suitable for uninterrupted operation. Can be installed in the NZM circuit-breaker and NZM switch-disconnector. Universal version 0 – 400 Hz AC/DC. Shunt release and auxiliary contact operate independently of one another. The early-make function of the VHI is not effective in conjunction with R-NZM7.
<b>AVHI-NZM7(24V)</b> 028837			
<b>AVHI-NZM7(48V)</b> 028838			
<b>AVHI-NZM7(60V)</b> 028839			
<b>AVHI-NZM7(110-120V)</b> 028840			
<b>AVHI-NZM7(125-130V)</b> 028841			
<b>AVHI-NZM7(208-215V)</b> 028842			
<b>AVHI-NZM7(220-240V)</b> 028843			
<b>AVHI-NZM7(380-415V)</b> 028844			
<b>AVHI-NZM7(440-480V)</b> 028845			
<b>AVHI-NZM7(500V)</b> 028846			
Capacitor unit In conjunction with 230 V shunt release			
<b>NZM-XCM</b> 229413		1 off	Allows the safe use of the circuit-breakers in mesh-connected systems in the range 0 to 110 % $U_n$ at a constant break time of 40 ms. If the mains voltage is absent, the installed capacitor supplies power for actuating the shunt release for at least 12 hours. IP20 enclosure.

## Accessories for NZM7 and P7

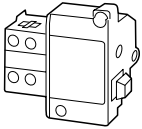
### Undervoltage releases

Contact sequence	Rated control voltage	Type suffix Article no. When ordered with basic unit	Price See Price List	Type Article no. When ordered separately	Price See Price List	Std. pack
	$U_s$					
	V					

#### Undervoltage releases, non-delayed

For fitting in NZM circuit-breakers or NZM switch-disconnectors.  
Trips when the control voltage drops to below 70 – 35%  $U_s$   
Suitable for Emergency-Stop applications

Without early-make auxiliary contacts

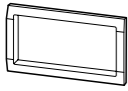
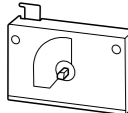

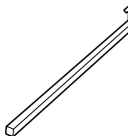
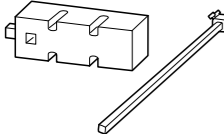


Contact sequence	Rated control voltage	Type suffix Article no. When ordered with basic unit	Price See Price List	Type Article no. When ordered separately	Price See Price List	Std. pack
	AC	24	+U-NZM7(24VAC) 027309	U-NZM7(24VAC) 028847		1 off
	48	+U-NZM7(48VAC) 027310	U-NZM7(48VAC) 028848			
	60	+U-NZM7(60VAC) 027311	U-NZM7(60VAC) 028849			
	110 – 120	+U-NZM7(110-120VAC) 027312	U-NZM7(110-120VAC) 028850			
	125 – 130	+U-NZM7(125-130VAC) 027313	U-NZM7(125-130VAC) 028851			
	208 – 215	+U-NZM7(208-215VAC) 027314	U-NZM7(208-215VAC) 028852			
	220 – 240	+U-NZM7(220-240VAC) 027315	U-NZM7(220-240VAC) 027608			
	380 – 415	+U-NZM7(380-415VAC) 027316	U-NZM7(380-415VAC) 065565			
	440 – 480	+U-NZM7(440-480VAC) 027317	U-NZM7(440-480VAC) 028854			
	500	+U-NZM7(500VAC) 027318	U-NZM7(500VAC) 028855			
	DC	24	+U-NZM7(24VDC) 027599	U-NZM7(24VDC) 027607		
	48	+U-NZM7(48VDC) 027342	U-NZM7(48VDC) 028879			
	60	+U-NZM7(60VDC) 027343	U-NZM7(60VDC) 028880			
	110 – 120	+U-NZM7(110-120VDC) 027344	U-NZM7(110-120VDC) 028881			
	125 – 130	+U-NZM7(125-130VDC) 027345	U-NZM7(125-130VDC) 028882			
	208 – 215	+U-NZM7(208-215VDC) 027346	U-NZM7(208-215VDC) 028883			
	220 – 240	+U-NZM7(220-240VDC) 027347	U-NZM7(220-240VDC) 028884			
	380 – 415	+U-NZM7(380-415VDC) 027348	U-NZM7(380-415VDC) 028885			
	440 – 480	+U-NZM7(440-480VDC) 027349	U-NZM7(440-480VDC) 028886			
500	+U-NZM7(500VDC) 027350	U-NZM7(500VDC) 028887				



## Accessories for NZM7 and P7

### Operating elements



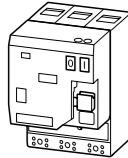
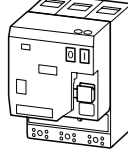
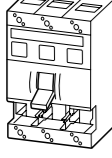
	Type suffix Article no. When ordered with basic unit	Price See Price List	Std. pack
<b>Insulating surround</b>			
For use where toggle switch protrudes from the enclosure, degree of protection IP40			
	+RT-NZM7 051093		1 off
<b>Rotary drive</b>			
Converts On and Off switching from a toggle movement to a rotary movement			
	+DA-NZM7 051097		1 off
	With additional padlocking feature		
	+DAOV-NZM7 051328		1 off
	Without padlocking feature		
<b>Rotary handles for surface mounting switches</b>			
Black, rotary drive required			
	+HU-NZM7 051487		1 off
<b>Door coupling rotary handle for rear mounting switches</b>			
Degree of protection IP55, IP65 in vertical mounting position with padlocking feature, rotary drive required			
	Black	+H-NZM7 051712	1 off
	Red-yellow Allows the switch to be used as Emergency-Stop device according to IEC/EN 60204-1	+RH-NZM7 052141	
	Black, without padlocking feature	+HOV-NZM7 051714	
<b>Extension shaft</b>			
Can be cut to required length			
	For mounting depth 175 – 400 mm	+A400-NZM7 052741	1 off
	For mounting depth 260 – 600 mm	+A600-NZM7 052927	1 off
<b>Side-wall operators</b>			
For actuating the switch from the side of the control panel; for changing the rotary movement by 90° fitted on top of the DA(OV) rotary drive; 280 mm extension shaft supplied with special coupling as standard			
	For operation on the left	+SWA-NZM7-L 054520	1 off
	For operation on the right	+SWA-NZM7-R 054522	1 off

## Accessories for NZM7 and P7

### Operating elements

Type Article no. When ordered separately	Price See Price List	Std. pack	Notes
RT-NZM7 051092		1 off	– Screw-fixed at the rear Can be inscribed
DA-NZM7 051096		1 off	Lockable in the Off or On position with up to three padlocks. Hasp thickness: 4 – 8 mm
DAOV-NZM7 051327		1 off	–
HU-NZM7 051329		1 off	–
H-NZM7 051711		1 off	Lockable in the Off or On position with up to three padlocks. Hasp thickness: 4 – 8 mm
RH-NZM7 052089			RH-NZM7 is only lockable in the Off position with up to three padlocks. Hasp thickness: 4 – 8 mm
HOV-NZM7 051713			–
A400-NZM7 052572		1 off	Up to 400 mm
A600-NZM7 053373		1 off	Up to 600 mm
SWA-NZM7-L 054519		1 off	–
SWA-NZM7-R 054521		1 off	–

Overview of combination options  
NZM10, P10 circuit-breakers and switch-disconnectors

	Trip blocks			Blanking block	Auxiliary contacts			Signalling block
Type	ZM- 250 400 630	ZMM- 250 400 630	ZMV- 250 400 630	B- NZM10	NHI- NZM10	RHI- NZM10	VHI-NZM10 Not in conjunction with R-NZM10	M- NZM10
<b>Circuit-breaker</b>								
	NZM10...N(S)/ZM(M)(V)	○ ○ ○ or ○	○ ○ or ○	○ ○	-	● ● ●	●	●
	NZM10...H/ZM	○ ○ ○	- - -	○ <sup>1)</sup> ○ <sup>1)</sup> ○ <sup>1)</sup>	-	● ● ●		●
<b>Switch-disconnector</b>								
	P10...	- - -	- - -	-	●	-	-	-
	NZM10...N/B	- - -	- - -	○	●	● ●		-
<b>Remotely operated circuit breaker</b>								
	NZM10...N(S)/ZM(M)(V)+R-NZM10	○ ○ ○ or ○	○ ○ or ○	○ ○	-	● ● -		●
	NZM10...H/ZM+R-NZM10	○ ○ ○	- - -	-	-	● ● -		●
<b>Remotely operated switch-disconnector</b>								
	P10...+R-NZM10	- - -	- - -	-	●	-	-	-
	NZM10...N/B+R-NZM10	- - -	- - -	○	●	● ●		-
<b>Basic units</b>								
	NZM10-400N	● ● -	● ● -	● ● -	●	● ● ●		● With ZM(M)(V)
	NZM10-400S	● ● -	● ● -	● ● -	-	● ● ●		●
	NZM10-400H	● ● -	- - -	- - -	-	● ● ●		●
	NZM10-630N	● ● ●	● ● ●	● ● ●	●	● ● ●		●
	NZM10-630S	● ● ●	● ● ●	● ● ●	-	● ● ●		●
	NZM10-630H	● ● ●	- - -	- - -	-	● ● ●		●

Notes ● Combination options  
○ included as standard

Each line represents one set of combination options.  
Each ● corresponds to one device.

<sup>1)</sup> for 3-pole devices only; no separate delivery of ZMV trip unit

Overview of combination options  
NZM10, P10 circuit-breakers and switch-disconnectors

Voltage release		Earth-fault release	Remote operator	Rotary drive Rotary handle Door coupling rotary handle		Terminals Bolt terminal as standard				
A- NZM10	U- NZM10	TV- NZM10	R- NZM10	D- NZM10	H10U- NZM10	H10- NZM10	K300- NZM10	K2X120- NZM10	K2X240- NZM10	K22X21- NZM10
<b>Circuit-breaker</b>										
● or ●	●	●	● or	●	● or ●	●	● or ●	● or ●	● or ●	● or ●
● or ●	●	●	● or	●	● or ●	●	● or ●	● or ●	● or ●	● or ●
<b>Switch-disconnector</b>										
-	-	-	● or	●	● or ●	●	● or ●	● or ●	● or ●	● or ●
● or ●	-	-	● or	●	● or ●	●	● or ●	● or ●	● or ●	● or ●
<b>Remotely operated circuit breaker</b>										
● or ●	●	○	-	-	-	●	● or ●	● or ●	● or ●	● or ●
● or ●	●	○	-	-	-	●	● or ●	● or ●	● or ●	● or ●
<b>Remotely operated switch-disconnector</b>										
-	-	-	○	-	-	-	● or ●	● or ●	● or ●	● or ●
● or ●	-	-	○	-	-	-	● or ●	● or ●	● or ●	● or ●
<b>Basic units</b>										
● or ●	●	●	● or	●	● or ●	●	● or ●	● or ●	● or ●	● or ●
● or ●	●	●	● or	●	● or ●	●	● or ●	● or ●	● or ●	● or ●
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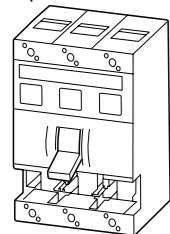


**NZM10 circuit-breakers and switch-disconnectors**  
Basic units, trip blocks

Rating data Rated uninterrupted current  $I_u$ A	Setting range			For basic units	
	Overload release  Main pole $I_r$ A	Short-circuit release		400 A	630 A
		Delayed $I_{rmv}$ A	Non-delayed $I_{rn}$ A		

**Basic units**

3-pole

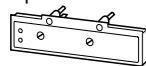


400	-	-	-	-	-
400	-	-	-	-	-
400	-	-	-	-	-
630	-	-	-	-	-
630	-	-	-	-	-
630	-	-	-	-	-

**Trip blocks**

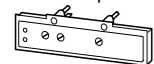
For system protection

3-pole



-	125250	-	$2 - 12 \times I_r$	●	●
-	200400	-		●	●
-	300630	-		-	●

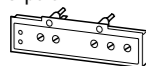
For motor protection



-	125250	-	$2 - 12 \times I_u$	●	●
-	200400	-		●	●
-	300630	-		-	●

With time selectivity

3-pole

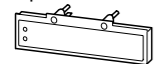


-	125250	$2 - 12 \times I_r$	500 - 6000	●	●
-	200400		1000 - 9000	●	●
-	300630		1000 - 9000	-	●

**Blank block**

Blank blocks convert basic units to form switch-disconnectors

3-pole

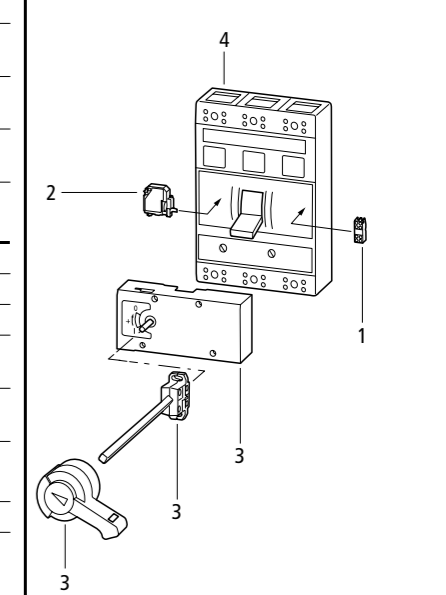


-	-	-	-	●	●
---	---	---	---	---	---

**NZM10 circuit-breakers and switch-disconnectors**  
Basic units, trip blocks

Type Article no.	Price See Price List	Std. pack	Notes
<b>NZM10-400N</b> 034773		1 off	
<b>NZM10-400S</b> 034764		-	
<b>NZM10-400H</b> 034760		-	
<b>NZM10-630N</b> 034772		-	
<b>NZM10-630S</b> 034765		-	
<b>NZM10-630H</b> 034761		-	
<b>ZM-250-NZM10</b> 047835		1 off	
<b>ZM-400-NZM10</b> 034780		-	
<b>ZM-630-NZM10</b> 034781		-	
<b>ZMM-250-NZM10</b> 047836		1 off	Not for use in combination with NZM10-...H. Delay time factory-set: 50 ms
<b>ZMM-400-NZM10</b> 034782		-	
<b>ZMM-630-NZM10</b> 034783		-	
<b>ZMV-250-NZM10</b> 047837		1 off	Not for use in combination with NZM10-...H.
<b>ZMV-400-NZM10</b> 034791		-	
<b>ZMV-630-NZM10</b> 034792		-	
<b>B-NZM10</b> 034815		1 off	This switch-disconnector can be preconfigured for later use as a circuit-breaker. The blank block must then be replaced by a trip block. Can be combined only with NZM10-...N basic unit.

Circuit-breakers are made up of one basic unit and one trip block.



Accessories	Seite
1 Auxiliary contacts	11/52
2 Voltage releases	11/53
3 Operating elements	11/60
4 Terminals	11/66

Circuit-breakers and switch-disconnectors up to 1600 A







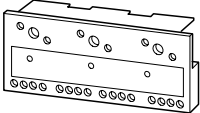
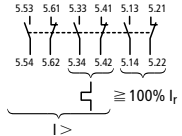
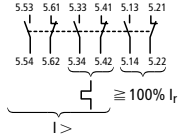
Circuit-breakers and switch-disconnectors up to 1600 A





## NZM10, P10 circuit-breakers and switch-disconnectors

### Auxiliary switch, annunciation unit



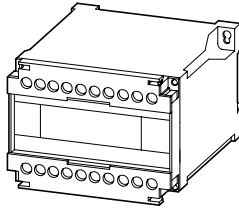

Circuit symbol	Type suffix Article no. When ordered with basic unit	Price See Price List	Type Article no. When ordered separately	Price See Price List	Std. pack
<b>NHI standard auxiliary contacts</b> Switching with the main contacts, used for indication and interlock functions.					
 	<b>+NHI-NZM10</b> 034798		<b>NHI-NZM10</b> 034943		1 off
<b>VHI early-make auxiliary contacts</b> For early-make closing of the undervoltage release For interlock circuits, Can be installed in the NZM circuit-breaker and NZM switch-disconnector. Cannot be used in conjunction with R-NZM10 remote operators.					
 	<b>+VHI-NZM10</b> 034800		<b>VHI-NZM10</b> 034944		1 off
<b>RHI trip-indicating auxiliary contacts</b> For general trip indication Can be fitted into NZM circuit-breakers and switch-disconnectors					
 	<b>+RHI-NZM10</b> 034797		<b>RHI-NZM10</b> 034945		1 off
<b>Annunciation unit</b> Differential remote signalling and local indication of the operating states: <ul style="list-style-type: none"> <li>• Tripping by overload release</li> <li>• Tripping by short-circuit release</li> <li>• With Reset function for overload and short-circuit signal (only for resetting local annunciation)</li> <li>• Pre-alarm on exceeding the overload release setting (100 %), drops back at 85 %</li> </ul> Each unit has 1 make and 1 break contact Fits under the NZM10(4) circuit-breaker; supply voltage: 24 – 230 V AC/DC					
					
<b>3-pole</b>					
	<b>+M-NZM10</b> 034801		<b>M-NZM10</b> 034946		1 off
<b>4-pole</b>					
	<b>+M-NZM104</b> 034802		<b>M-NZM104</b> 034947		1 off

Circuit-breakers and switch-disconnectors up to 1600 A



# NZM10, P10 circuit-breakers and switch-disconnectors

## Shunt releases

Circuit symbol	Rated control voltage	Type suffix Article no. When ordered with basic unit	Price See Price List	Type Article no. When ordered separately	Price See Price List	Std. pack
	$U_s$					
	V					
<b>Shunt releases</b>						
100% duty factor, universal version 0-400 Hz AC/DC, for fitting into NZM circuit-breakers and NZM switch-disconnectors For immediate disconnection of NZM circuit-breakers and NZM switch-disconnectors after voltage is applied						
						
	AC/DC	24	+A-NZM10(24V) 036641	A-NZM10(24V) 036642		1 off
		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		
		660 – 690	+A-NZM10(660-690V) 036663	A-NZM10(660-690V) 036664		
<b>Capacitor unit</b> In conjunction with 230 V shunt release						
						
	-	-		NZM-XCM 229413		1 off





**Notes**

<sup>1)</sup> Allows the safe use of the circuit-breakers in mesh-connected systems in the range 0 to 110 %  $U_n$  at a constant break time of 40 ms. If the mains voltage is absent, the installed capacitor supplies power for actuating the shunt release for at least 12 hours. IP20 enclosure.

## NZM10, P10 circuit-breakers and switch-disconnectors

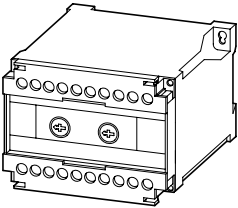


### Undervoltage releases

Circuit symbol	Rated control voltage	Type suffix Article no. When ordered with basic unit	Price See Price List	Type Article no. When ordered separately	Price See Price List	Std. pack	
	$U_s$						
	V						
<b>Undervoltage releases, non-delayed</b>							
For fitting into NZM circuit-breakers and NZM switch-disconnectors trips when the control voltage falls to below 70-35 % $U_s$ , suitable for Emergency-Stop applications							
							
	AC	24	+U-NZM10(24VAC) 036665		U-NZM10(24VAC) 036666	1 off	
		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		
		660 – 690	+U-NZM10(660-690VAC) 036687		U-NZM10(660-690VAC) 036688		
		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

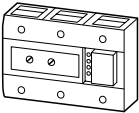




# NZM10, P10 circuit-breakers and switch-disconnectors

## Undervoltage releases, earth-fault releases

Circuit symbol	Rated control voltage	Type suffix Article no. When ordered with basic unit	Price See Price List	Type Article no. When ordered separately	Price See Price List	Std. pack
	$U_s$ V					
<b>Undervoltage releases, off-delayed</b>						
Combination of separate drop-out delay unit and built-in undervoltage release						
						
Delay time 0.06 - 16 s		AC	24 220 - 240 380 - 440 480 - 550	<b>+UVU-NZM10</b> 215192	<b>UVU-NZM10</b> 215191	1 off
		DC	24			
<b>Supplementary release coil</b>						
For UV-NZM10 delayed undervoltage releases, where the drop-out delay unit is already fitted						
						
					<b>UV200-NZM10-OAVE</b> 232110	1 off


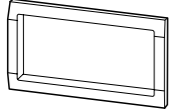
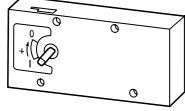
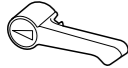
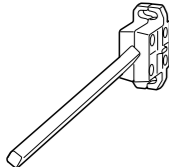
**Notes** 1) For other control voltages use 50 VA control transformer. Fixing: top-hat rail or screws

Circuit symbol	Rated control voltage	For NZM circuit-breakers and switch-disconnectors	Type suffix Article no. When ordered with basic unit	Price See Price List	Type Article no. When ordered separately	Price See Price List	Std. pack
	$U_s$ V						
<b>Earth-fault releases</b>							
Not dependent on external voltages Fault current adjustable in stages: $I_{\Delta n} = 80, 100, 130, 160, 200, 240, 280, 320, 360, 400$ A, With adjustable delay time $t_v = 0, 60, 150, 200, 300, 500, 750, 1000$ ms							
							
Can be retrofitted to the circuit-breaker Tripping is by direct signal to the control electronics of the switch							
	-	3-pole	<b>+TV-NZM10</b> 095126		<b>TV-NZM10</b> 034811		1 off
	-	4-pole	<b>+TV-NZM104</b> 095227		<b>TV-NZM104</b> 034812		1 off
For separate mounting Tripping is via shunt or undervoltage release via contacts 6.13 - 6.14 or 6.21 - 6.22							
	-	3-pole			<b>TV-NZM10/E</b> 034813		1 off
	-	4-pole			<b>TV-NZM104/E</b> 034814		1 off



## NZM10, P10 circuit-breakers and switch-disconnectors

### Insulated enclosure, operating elements

	Rated uninterrupted current	Type suffix Article no. When ordered with basic unit	Price See Price List	Std. pack
	$I_u$ A			
<b>Insulated enclosures for switch</b>				
For 3- and 4-pole switches				
With black door coupling rotary handle Rotary drive and extension shaft				
-	400	+CI-NZM10-400 026549		1 off
-	630	+CI-NZM10-630 026550		1 off
With red-yellow door coupling rotary handle Enables the switch to be used as Emergency-Stop device to IEC/EN 60204-1				
-	400	+CI-RT-NZM10-400 026551		1 off
-	630	+CI-RT-NZM10-630 026552		1 off
Additional terminal For passing the neutral conductor through				
-	400			
-	630			
<b>Toggle switch interlock</b>				
Off position lockable using up to 3 padlocks (hasp thickness 6 - 8 mm)				
	-	+SVB-NZM10 034829		1 off
<b>Insulating surround</b>				
For use where toggle switch protrudes from the enclosure degree, of protection IP40				
	-	+RT-NZM10 094927		1 off
<b>Rotary drive</b>				
Converts On and Off switching from a toggle movement to a rotary movement				
	-	+D-NZM10 034827		1 off
<b>Rotary handle</b>				
Black Rotary drive required				
	-	+H10U-SW 044608		1 off
<b>Extension shaft</b>				
Can be cut to required length				
	For mounting depth: 175 - 400 mm	+A-NZM10 051378		1 off
	For mounting depth: 260 - 600 mm	+A600-NZM10 025373		1 off

## NZM10, P10 circuit-breakers and switch-disconnectors



### Insulated enclosure, operating elements

Type Article no. When ordered separately	Price See Price List	Std. pack	Enclosure description, insulated enclosure	5th conductor can be retrofitted	Notes
CI-NZM10-400 026553		1 off	KST48-200+KS4	K240/1BR	-
CI-NZM10-630 026554		1 off	KST48-200+KST43. KST43 supplied loose.	K2X240/1BR	-
CI-RT-NZM10-400 026555		1 off	KST 48-200 + KS 4	K240/1BR	-
CI-RT-NZM10-630 026556		1 off	KST 48-200 + KST 43. KST 43 supplied loose.	K2 × 240/1BR	-
K240/1/BR 017082		1 off	-	-	-
K2X240/1/BR 019455		1 off	-	-	-
SVB-NZM10 034948		1 off	-	-	-
RT-NZM10 034828		1 off	-	-	Screw fixed at rear. Facility for inscription.
D-NZM10 034949		1 off	-	-	Required for using rotary and door coupling rotary handles. Lockable in the Off or On position using up to three padlocks Hasp thickness: 4 - 8 mm
H10U-SW 044607		1 off	-	-	-
A-NZM10 051377		1 off	-	-	-
A600-NZM10 047892		1 off	-	-	-



## NZM10, P10 circuit-breakers and switch-disconnectors

### Insulated enclosure, operating elements

		Type suffix Article no. When ordered with basic unit	Price See Price List	Std. pack
<b>Door coupling rotary handle for rear mounting switches</b>				
Degree of protection IP55 With padlocking feature Rotary drive required Lockable in the Off or On position using up to three padlocks				
				
Black	Without handle position locking	<b>+H10-SW</b> 034952		1 off
	With handle position locking	<b>+H10-F-SW</b> 034955		1 off
Red-yellow Enables the switch to be used as Emergency-Stop device according to IEC/EN 60204-1	Without handle position locking	<b>+RH10</b> 034954		1 off
	With handle position locking	<b>+RH10-F</b> 034957		1 off
<b>Switch position indication</b>				
When the panel door is open Fits onto the shaft of the rotary drive				
	–	<b>+SA-NZM10</b> 045051		1 off
<b>Add-on rotary handle</b>				
Push-fits on to the extension shaft				
				
	For A-NZM10, A400-NZM14	<b>+H10UZ</b> 044757		1 off
	For A600-NZM-10, A600-NZM14	<b>+H12UZ</b> 065794		1 off
<b>Main switch assembly kits</b>				
With black door coupling rotary handle	–	<b>+V-NZM10-SW</b> 054138		1 off
With red-yellow door coupling rotary handle Enables the switch to be used as Emergency-Stop device according to IEC/EN 60204-1	–	<b>+V-NZM10</b> 025372		1 off
<b>External warning plate</b>				
Inscription: "Main Switch - Open only in the Off position"				
German	–	<b>+ZS61-NZM10</b> 045056		1 off
English	–	<b>+ZS62-NZM10</b> 027559		1 off
French	–	<b>+ZS63-NZM10</b> 027560		1 off
Further languages are available under the Article nos. on opposite page	–	<b>+ZS*-NZM10</b> 999976		1 off
Blank (for engraving or printing)	–	<b>+ZS60-NZM10</b> 045054		1 off
<b>Lightning symbol</b>				
Including terminal marking for main switch				
	–			

## NZM10, P10 circuit-breakers and switch-disconnectors



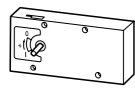

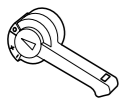


### Insulated enclosure, operating elements

Type Article no. When ordered separately	Price See Price List	Std. pack	Notes
<b>H10-SW</b> 034805		1 off	–
<b>H10-F-SW</b> 034808		1 off	Handle position maintained when the door or cover are being opened
<b>RH10</b> 034807		1 off	–
<b>RH10-F</b> 034809		1 off	Handle position maintained when the door or cover are being opened
<b>SA-NZM10</b> 045050		1 off	–
<b>H10UZ</b> 044756		1 off	–
<b>H12UZ</b> 047427		1 off	–
<b>V-NZM10-SW</b> 054150		1 off	–
<b>V-NZM10</b> 047893		1 off	–
<b>ZS61-NZM10</b> 045057		1 off	External warning plates are available in the following languages:
<b>ZS62-NZM10</b> 027579		1 off	64 Bulgarian 73 Romanian
<b>ZS63-NZM10</b> 027580		1 off	65 Danish 74 Russian
<b>ZS*-NZM10</b> 999977		1 off	66 Finnish 75 Swedish
<b>ZS60-NZM10</b> 045055		1 off	67 Dutch 76 Serbo-Croatian
			68 Italian 77 Spanish
			69 Greek 78 Czech
			70 Norwegian 79 Turkish
			71 Polish 80 Hungarian
			72 Portuguese 81 Afrikaans
			To obtain the reference for ordering, insert the language code number into the type reference required
			<b>Ordering example</b>
			External warning plate in Finnish: ZS66-NZM10
<b>BPF-NZM10</b> 231363		10 off	Included as standard in main switch assembly kit



## NZM14 circuit-breakers and switch-disconnectors

### Operating elements

		Type suffix Article no. When ordered with basic unit	Price See Price List	Std. pack
<b>Toggle switch interlock</b>				
Can be locked in the On or Off position Lockable with 3 padlocks (hasp thickness: 6 – 8 mm)	–	<b>+SVB-NZM14</b> 066141		1 off
				
<b>Toggle lever extension</b>				
Supplied with basic unit	–			
				
<b>Rotary drive</b>				
Converts On and Off switching from a toggle movement to a rotary movement With padlocking feature Lockable in the Off position	–	<b>+D-NZM14</b> 066131		1 off
				
<b>Rotary handles for surface mounting switches</b>				
Rotary drive required	–	<b>+H14U-SW</b> 082777		1 off
				
<b>Door coupling rotary handle for rear mounting switches</b>				
Degree of protection IP55 With padlocking feature Can be locked in On or Off position, Lockable with 3 padlocks (hasp thickness: 6 – 8 mm)				
				
<b>Black</b>				
	Without handle position locking	<b>+H14-SW</b> 066133		1 off
	With handle position locking	<b>+H14-F-SW</b> 066135		1 off
<b>Red-yellow</b>				
Allows the switch to be used as Emergency-Stop device according to IEC/EN 60204-1	Without handle position locking	<b>+RH14</b> 066137		1 off
	With handle position locking	<b>+RH14-F</b> 066139		1 off
<b>Extension shaft</b>				
Can be cut to required length	For mounting depth 260 – 400 mm	<b>+A400-NZM14</b> 200546		1 off
	For mounting depth 260 – 600 mm	<b>+A600-NZM14</b> 082775		1 off
				
<b>Switch position indication</b>				
When the panel door is open	–			
<b>Add-on rotary handle</b>				
Push-fits onto the extension for rear mounting switches	For A-NZM10, A400-NZM14			
	For A600-NZM-10, A600-NZM14			
				

## NZM14 circuit-breakers and switch-disconnectors

### Operating elements

Type Article no. When ordered separately	Price See Price List	Std. pack	Notes
<b>SVB-NZM14</b> 066140		1 off	–
<b>KHV-NZM14</b> 066142		1 off	–
			Required for using rotary and door coupling rotary handles. Lockable with 3 padlocks (hasp thickness: 6 – 8 mm)
<b>H14U-SW</b> 082776		1 off	–
<b>H14-SW</b> 066132		1 off	–
<b>H14-F-SW</b> 066134		1 off	Handle position maintained when the door or cover are being opened
<b>RH14</b> 066136		1 off	–
<b>RH14-F</b> 066138		1 off	Handle position maintained when the door or cover are being opened
<b>A400-NZM14</b> 200547		1 off	–
<b>A600-NZM14</b> 082774		1 off	–
<b>SA-NZM10</b> 045050		1 off	–
<b>H10UZ</b> 044756		1 off	–
<b>H12UZ</b> 047427		1 off	–

