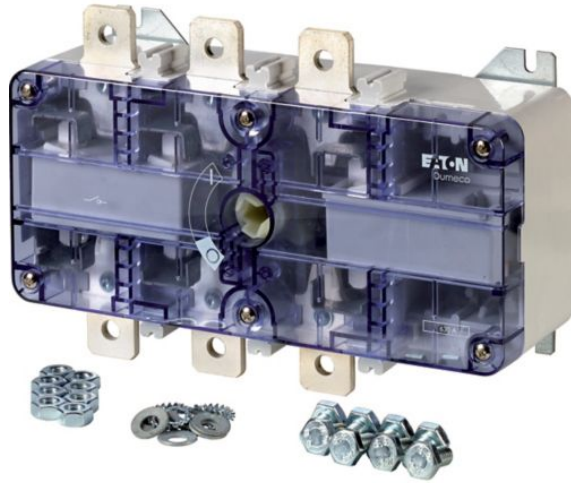


# Specifications



## Eaton 1814442

Eaton DMV Switch-disconnector, DMV, 630 A, 3 pole, Stop Function optional, Without rotary handle and drive shaft

### General specifications

<b>PRODUCT NAME</b>	Eaton DMV Switch-disconnector
<b>CATALOG NUMBER</b>	1814442
<b>MODEL CODE</b>	DMV-630N/3
<b>EAN</b>	8711426211995
<b>PRODUCT LENGTH/DEPTH</b>	96 mm
<b>PRODUCT HEIGHT</b>	192 mm
<b>PRODUCT WIDTH</b>	292 mm
<b>PRODUCT WEIGHT</b>	4.61 kg
<b>CERTIFICATIONS</b>	RoHS CE Lloyds VDE 0660 IEC/EN 60204 KEMA IEC/EN 60947 IEC/EN 60947-3 EAC



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## Features & Functions

<b>FEATURES</b>	Version as emergency stop installation
<b>FUNCTIONS</b>	Optional Stop Function
<b>NUMBER OF POLES</b>	Three-pole

## General

<b>ACCESSORIES</b>	<ul style="list-style-type: none"><li>• Auxiliary contact fitted by user.</li><li>• Connection materials included with supplied equipment.</li></ul>
<b>ACTUATOR COLOR</b>	Other
<b>ACTUATOR TYPE</b>	Other
<b>DEGREE OF PROTECTION</b>	NEMA Other
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP20
<b>LIFESPAN, MECHANICAL</b>	5,000 Operations
<b>MOUNTING METHOD</b>	Surface mounting
<b>MOUNTING POSITION</b>	As required
<b>OVERVOLTAGE CATEGORY</b>	III
<b>POLLUTION DEGREE</b>	3
<b>PRODUCT CATEGORY</b>	<ul style="list-style-type: none"><li>• Main switch</li><li>• Switch-disconnector</li></ul>
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	12000 V
<b>SAFETY PARAMETER (EN ISO 13849-1)</b>	B10d values as per EN ISO 13849-1, table C.1
<b>SUITABLE FOR</b>	Ground mounting

## Climatic environmental conditions

<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	55 °C
<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	-30 °C
<b>AMBIENT STORAGE TEMPERATURE - MAX</b>	80 °C

## Terminal capacities

<b>TERMINAL CAPACITY</b>	400 mm <sup>2</sup> , Flat conductor connection with busbars
<b>SCREW SIZE</b>	M10 x 20, Terminal screw
<b>TIGHTENING TORQUE</b>	28 Nm, Screw terminals

## Electrical rating

<b>RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)</b>	5040 A
<b>RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)</b>	4600 A
<b>RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)</b>	3496 A
<b>RATED INSULATION VOLTAGE (UI)</b>	1000 V
<b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 400 V, 415 V</b>	630 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 500 V</b>	630 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 690 V</b>	630 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-22, 380 V, 400 V, 415 V</b>	630 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-22, 500 V</b>	630 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-22, 690 V</b>	630 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V</b>	630 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V</b>	575 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V</b>	437 A
<b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>	375 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ</b>	425 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ</b>	425 kW
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	0 kW
<b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>	690 V
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	630 A
<b>UNINTERRUPTED CURRENT</b>	Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.

## Short-circuit rating

<b>BREAKING CURRENT</b>	70 kA (at I <sub>n</sub> = 1000) 65 kA (at I <sub>n</sub> = 630)
<b>LET-THROUGH ENERGY</b>	Max. 3200 kA <sup>2</sup> s (at I <sub>n</sub> = 630) Max. 4200 kA <sup>2</sup> s (at I <sub>n</sub> = 1000)
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	50 kA at I <sub>n</sub> = 1000 100 kA
<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	36 kA, Contacts, 1 second 36 kA
<b>SHORT-CIRCUIT PROTECTION RATING</b>	1000/630, Fuse, Contacts

## Contacts

<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
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<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
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<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
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## Design verification

<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	14 W
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<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
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<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	17.5 W
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<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	630 A
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<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
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<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
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<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
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<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
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<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
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<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
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<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
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<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
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<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
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<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
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<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
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<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
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<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
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<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
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<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
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<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Resources

<b>CATALOGUES</b>	<a href="#">eaton-industrial-switch-disconnectors-catalogue-ca008011en-en-gb.pdf</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00004902.pdf</a> <a href="#">DA-DC-00004929.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-rotary-switches-dmv-switch-disconnector-dimensions-017.eps</a> <a href="#">eaton-rotary-switches-dmv-switch-disconnector-dimensions-009.eps</a> <a href="#">eaton-general-switch-t0-main-switch-symbol.eps</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.DMV-630N_3</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL008008ZU</a>
<b>MCAD MODEL</b>	<a href="#">DA-CD-dmv630n_1814444_1</a> <a href="#">DA-CS-dmv630n_1814444_1</a>
<b>WIRING DIAGRAMS</b>	<a href="#">eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.eps</a> <a href="#">eaton-rotary-switches-t0-on-off-switch-wiring-diagram-068.eps</a>

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**PROJECT NAME:**

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**PROJECT NUMBER:**

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**PREPARED BY:**

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**DATE:**

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