DATASHEET - PN1-4-160



Switch-disconnector 4p, 160A

Part no. PN1-4-160 281253 EL Number 4359002 (Norway)



Parte time Each Morie series R2M work-issonances Parte time 9014-400 Product logit/Upin 9014-400 Product logit/U	General specifications	
EAN 404582817253 Podect length (ept) 58 millinese Podect length (ept) 58 millinese Podect length (ept) 50 millinese </td <td>Product name</td> <td>Eaton Moeller series NZM switch-disconnector</td>	Product name	Eaton Moeller series NZM switch-disconnector
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Poduct width 120 millinore Poduct weight 126 kilogram Complances RLB kilogram Certifications ICC MORPA Poduct Trademane ICC MORPA Poduct Trademane None Circuit brake frame type Statistica Product Trademane Statistica Product Trademane Features Statistica Features Voltage cating Features Read operating brake trademane Statistica Voltage cating Statistica Read operating brake trademane Statistica Voltage cating Statistica Read operating brake trademane Statistica Voltage cating Statistica Read operating brathing toperatica Statistica <	Product Length/Depth	88 millimetre
Product weight 1.166 klagram Complications Roll'S conform Contrictions Roll'S conform Product Todesame None Product Todesame None Divery program Use in unsathed stophy systems at BMV Number of polis Fourpole Anaporage fasting Hold Todesame Protoct Todesame None of polisitalisting Features Main orich hyperateristics incluing todicistop (EOER 80204 and VDE 8103 Roll Control None orich todicistop (EOER 80204 and VDE 8103 Roll Control None orich todicistop (EOER 80204 and VDE 8103 Roll Control Roll Control Roll Control Roll Control Roll Control Roll Control Roll Control Roll Control	Product height	145 millimetre
Compliances Image: Control of Contro of Control of Control of Contro of Control of Control o	Product width	120 millimetre
Certifications IEC IEC 80847 Product Type N2M Product Type Switch-disconnector Product Type None Oblivery program Use in unstaffed supply systems at 580 V Application Use in unstaffed supply systems at 580 V Type Switch-disconnector Dicturery program Switch-disconnector Application Four-rolen Amperage Rating 100 A Features Warston as main switch Special features Rest of admining and provide drive at ECEN 00004 and VDE 013. Isolating characteristics in IECEN 0004 and VDE 014. Isolat 0004 and VDE 014. Isolat 0004 VIECEN 0004 and VDE 014. Isolat 0004 VIECEN 0004 and VDE 0	Product weight	1.166 kilogram
Product Transme PECRE ISBN7 Product Transme NUM Product Transme NUM Product Transme Nume Particle Sub Transme Nume Application Use in mearthed supply systems at 600 V Transme Switch-discontector Application Use in mearthed supply systems at 600 V Number of poles Switch-discontector Circuit braker frame type Four-pole Amperage Raing Four-pole Features Version as animatures (service system) stabilistion Spacial features Four-pole Spacial features Four-pole Voltage raing Four-pole Rated approxing substance (service system) stabilistion Spacial features Voltage raing Four-pole Rated approxing visiting (service)	Compliances	RoHS conform
Product Type Switch disconnector Poilvery program None Application None Type Switch disconnector Cruit braker frame type Switch disconnector Drivery program Switch disconnector Cruit braker frame type Switch disconnector Drivery program Switch disconnector Cruit braker frame type PNI Munder of poles PNI Amperage Reting PRIA Features Wersion as mainternet to the IECEN 00204 and VEE 0013. Incidenting internet to the IECEN 00204 and VEE 0013. Incidenting internet state to IECEN 00204 and VEE 0013. Incidenting internet state IECEN 00204 and VEE 0013. Incidenting internet state IECEN 00204 and VEE 0014. Incidenting internet state IECEN 0014. Incidenti	Certifications	
Product Sin Type None Delivery program Image: Control of Cont	Product Tradename	NZM
Delivary program Application Use in uncarthed supply systems at S80 V Type Switch-disconnector Switch-disconnector Circuit breaker frame type Four-pole Switch-disconnector Amperage Rating Four-pole 160 A Features Warsion as mergency stop installation Version as mergency stop installation Special features Main system characteristics including postew drive to EC/EX N0204 and VDE 0113. Isolating characteristics to EC/EX N0204 and VDE 0080. Rated operating voltage (Uo) at AC - max 680 V 680 V Rated operating voltage (Uo) at AC - max 680 V 680 V Rated operating voltage (Unit) at an ani contacts 680 V 680 V Rated operating voltage (Unit) at an ani contacts 680 V 680 V Rated ope	Product Type	Switch-disconnector
Application Use in unearthed supply systems at 690 V Type Switch-disconnector Circuit breaker frame type PNI Amperage Rating Four-Oole Amperage Rating Four-oole Festures 160 A Special features Wareion as main switch Version as main switch Version as main switch Version as maintenance/special pointstallation Version as maintenance/special pointstallation Voltager ating 690 V - 690 V Rated inpulse withstand voltage (Uing) at awiliary contacts 690 V Rated inpulse withstand voltage (Uing) at awiliary contacts 690 V Rated pointenic urrent (lop) 0 A Rated operating voltage (Uing) at awiliary contacts 6000 V Rated pointenic urrent with back- up	Product Sub Type	None
Type Frequencies Switch-disconnector Circuit breaker frame type Four-pole Four-pole Amperage Rating Four-pole Four-pole Amperage Rating Version as mein switch Version as mein switch Features Version as mein switch Version as mein switch Special features Version as mein switch Version as mein switch Vortage rating Subset rag shroud to VDE 080 Pert 100. Rated operating voltage (Ue) at AC - max Rated operating voltage (Ue) at AC - max S60 V S60 V Rated operating voltage (Uing) at auxiliary contacts S600 V S600 V Rated conditional short-circuit current (In) S600 V S600 V Rated conditional short-circuit current (In) S600 V S600 V Rated conditional short-circuit current (In) S600 V S600 V Rated conditional short-circuit current (In) S600 V S600 V Rated conditional short-circuit current (In) S600 V S600 V Rated conditional short-circuit current (In) S600 V S600 V Rated conditional short-circuit current with back-up fuse S600 V S600 V Rated conditional short-circuit current with downs	Delivery program	
Circuit breaker frame type PN1 Number of poles Four-pole Amperage Rating Four-pole Postures 160 A Special features 160 A Special features 160 A Voltage rating Main switch characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 0113. Isolating characteristics including positive drive to EC/EN 60204 and VDE 6010. Isolating characteristics including positive drive to EC/EN 60204 and VDE 6010. Isolating characteristo Characteristo Characteristo Characteristo Characteristo Charact	Application	Use in unearthed supply systems at 690 V
Number of poles Four-pole Amparage Rasing 160 A Features 160 A Special features Version as main switch Version as main switch duracteristics Linding positive drive to IED/EN 60204 and VDE 0113. Isolating characteristics Linding positive drive to IED/EN 60204 and VDE 0113. Isolating characteristics Linding positive drive to IED/EN 60204 and VDE 0113. Isolating characteristics Linding positive drive to IED/EN 60204 and VDE 0113. Isolating characteristics Linding positive drive to IED/EN 60204 and VDE 0113. Isolating characteristics Linding positive drive to IED/EN 60204 and VDE 0113. Isolating characteristics Linding positive drive to IED/EN 60204 and VDE 0113. Isolating characteristics Linding positive drive to IED/EN 60204 and VDE 0113. Isolating characteristics Linding positive drive to IED/EN 60204 and VDE 0104. Rated current = rated uninterrupted current: 180 A Rated insulation voltage (U) AC - max 660 V 660 V Rated insulation voltage (U) AC - max 660 V 660 V Rated conditional short-circuit current (Iq) 660 V 660 V 660 V Rated permanent current at AC-21,400 V 0 A 660 V 660 V Rated conditional short-circuit current with back-up fuse 160 A (415 V AC-2223A, making and breaking capacity) Rated conditional short-circuit current with back-up fuse 160 A (415 V AC-2223A, making and breaking capacity) Rated conditional short-circuit current with back-up fuse 160 A (415 V AC-2223A, making and b	Туре	Switch-disconnector
Amperage Rating 160 A Features Version as main switch Special features Version as main switch Special features Main switch means exame gency stop installation Special features Main switch means exame gency stop installation Technical Data - Electrical Main switch means Voltage rating 660 V- 660 V Rated operating voltage (UIP) at ALC-max 660 V- 660 V Rated inpulse withstand voltage (UIP) at auxiliary contacts 660 V- 660 V Rated inpulse withstand voltage (UIP) at auxiliary contacts 660 V- 660 V Rated inpulse withstand voltage (UIP) at auxiliary contacts 660 V- 660 V Rated operating outge (UIP) at auxiliary contacts 600 V Rated inpulse withstand voltage (UIP) at auxiliary contacts 600 V Rated operational current at AC-21,400 V 0 A Rated conditional short-circuit current with back-up fuse 600 V Rated conditional short-circuit current with downstream fuse 600 V Rated conditional short-circuit current with downstream fuse 600 V Rated conditional short-circuit current with back-up fuse 600 V Rated conditional short-circuit current with back-up fuse 6	Circuit breaker frame type	PN1
Features Version as mains witch Special features Main switch characteristics including packing drive to IEC/EN 60204 and VDE 0113. Technical Data - Electrical Main switch characteristics including packing drive to IEC/EN 60204 and VDE 600. Voltage raing Main switch characteristics including packing drive to IEC/EN 60204 and VDE 600. Rated operating voltage (Ue) at AC - max 690 V Rated operating voltage (Uin) at AC - max 690 V Rated inpulse withstand voltage (Uin) 690 V Rated inpulse withstand voltage (Uin) at axiliary contacts 690 V Rated angerating voltage (Uin) at axiliary contacts 6000 V Rated angerating voltage (Uin) at axiliary contacts 6000 V Rated angerating voltage (Uin) at axiliary contacts 6000 V Rated angerating voltage (Uin) at axiliary contacts 6000 V Rated angerating voltage (Uin) at axiliary contacts 0 0 0 V Rated angerating voltage (Uin) at axiliary contacts 0 0 0 V Rated angerating voltage (Uin) at axiliary contacts 0 0 0 V Rated angerating voltage (Uin) at axiliary contacts 0 0 0 V Rated conditional short-circuit current (Uin) 0 A Rated angerating feagency 0 0 A Rated conditional short-circuit durr	Number of poles	Four-pole
Version as maintenance/sprice switch Special features Main switch characteristics including positive drive to IC/EN 80204 and VDE 0113. Isolating characteristics to IC/EN 80204 and VDE 0800. Isolating characteristics to IC/EN 80204 and VDE 0800. Isolating characteristics to IC/EN 80204 and VDE 0800. Voltage rating 680 V - 680 V Rated operating voltage (Up) at AC - max 680 V - 680 V Rated insulation voltage (Up) 680 V - 680 V Rated insulation voltage (Up) at AC - max 680 V - 680 V Rated insulation voltage (Up) 680 V - 680 V Rated insulation voltage (Up) at axx 680 V - 680 V Rated insulation voltage (Up) 690 V Rated insulation voltage (Up) at axx 680 V - 680 V Rated operating voltage (Up) at axx 680 V - 680 V Rated operating voltage (Up) at axx 680 V - 680 V Rated operating voltage (Up) at axx 680 V - 680 V Rated permanent current (lp) 600 V Rated permanent current at AC-21, 400 V 600 V Rated permanent current at AC-23, 400 V 000 kA at 400/15 V 800 ka permanent current (la C-3, 400 V 100 kA at 400/15 V 800 ka operating frequency 2kA Rated short-time withstand current (t=	Amperage Rating	160 A
Rest Res Rest Rest	Features	Version as emergency stop installation
Technical Data - Electrical 600 V Voltage rating 600 V - 600 V Rated operating voltage (Ue) at AC - max 600 V Rated insulation voltage (Uimp) at auxiliary contacts 6000 V Rated impulse withstand voltage (Uimp) at auxiliary contacts 6000 V Rated operational voltage (Uimp) at main contacts 6000 V Rated operational current (Iq) 0 kA Rated operational current at AC-21, 400 V 0 A Rated conditional short-circuit current with back-up fuse 0 A Rated conditional short-circuit current with back-up fuse 0 A Rated conditional short-circuit current with back-up fuse 0 A Rated conditional short-circuit current with back-up fuse 0 A Rated conditional short-circuit current with back-up fuse 0 A Rated short-tine withstand current (Iew) 0 A Rated short-tine withstand current (Iew) 0 KA at 800 V Rated short-tine withstand current (Iew) 2 kA Rated operating frequency 2 kA Rated operating frequency 2 kA Rated operating frequency 2 kA Rated short-tine withstand current (I = s) 5 kA Rated short-tine withstand current (I = s) 5	Special features	Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100.
Rated operating voltage (Ue) at AC - maxBov VRated insulation voltage (Ui)Bated insulation voltage (Uin) at auxiliary contactsBov VRated impulse withstand voltage (Uinp) at auxiliary contactsBov VRated impulse withstand voltage (Uinp) at main contactsBov VRated operating al brot-circuit current (Iq)0 kARated operational currentIBO A (415 V AC-22/23A, making and breaking capacity)Rated permanent current at AC-21, 400 V0 ARated permanent current with back-up fuse0 ARated conditional short-circuit current with back-up fuse0 ARated conditional short-circuit current with downstream fuse0 ARated short-time withstand current (Icw)0 ARated short-time withstand current (Icw)0 ARated short-time withstand current (Icw)2 kARated short-time withstand current (Icw)2 kARated operating frequency50 HzRated operating requency50 HzRated operating requency0 kWRated operating power at AC-32, 400 V0 kW	Technical Data - Electrical	
Rated insulation voltage (Ui)Bated impulse withstand voltage (Uimp) at auxiliary contactsBoo VRated impulse withstand voltage (Uimp) at auxiliary contactsBoo VRated conditional short-circuit current (Iq)KARated operational currentKARated permanent current at AC-21, 400 VKARated conditional short-circuit current with back-up fuseKARated conditional short-circuit current with back-up fuseKARated conditional short-circuit current with downstream fuseKA at 690 VRated conditional short-circuit current (Icw)KA at 690 VRated short-time withstand current (Icw)KA at 600 VRated short-time withstand current (Ic = 0.3 s)KARated short-circuit making capacity (Icm at 690 V, 50/50 HzKARated short-circuit making capacity (Icm at 690 V, 50/50 HzKARated operating power at AC-32, 400 VKWRated operating power at AC-32, 400 V	Voltage rating	690 V - 690 V
Rated impulse withstand voltage (Uimp) at auxiliary contacts6000 VRated impulse withstand voltage (Uimp) at main contacts6000 VRated conditional short-circuit current (Iq)0 kARated operational current0 kARated permanent current at AC-21, 400 V0 ARated permanent current at AC-23, 400 V0 ARated conditional short-circuit current with back-up fuse0 ARated conditional short-circuit current with back-up fuse0 ARated conditional short-circuit current with downstream fuse100 kA at 400/415 V 80 kA at 680 V 160 gRRated short-time withstand current (Icw)0 ARated short-time withstand current (Icw)0 ARated operating frequency2 kARated operating power at AC-3, 400 V50 kBV 2.8 kARated operating power at AC-3, 400 V60 kBV 2.8 kARated operating power at AC-3, 400 V60 kBV 3.9 kW	Rated operating voltage (Ue) at AC - max	690 V
Rated inpulse withstand voltage (Uimp) at main contacts6000 VRated conditional short-circuit current (Iq)0 kARated operational current160 A (415 V AC-22/23A, making and breaking capacity)Rated operational current160 A (415 V AC-22/23A, making and breaking capacity)Rated permanent current at AC-21, 400 V0 ARated permanent current at AC-23, 400 V0 ARated conditional short-circuit current with back-up fuse100 kA at 400/415 V 80 kA at 680 VRated conditional short-circuit current with downstream fuse10 kA at 680 VRated short-time withstand current (Icw)2 kARated short-time withstand current (Icw)2 kARated operating frequency50 HzRated operating power at AC-3, 400 V6 MURated operating power at	Rated insulation voltage (Ui)	690 V
Rated conditional short-circuit current (Iq)KARated operational current160 A (415 V AC-22/23A, making and breaking capacity) 160 A (690 V AC-22/23A, making and breaking capacity)Rated operational current at AC-21, 400 V0Rated permanent current at AC-23, 400 V0Rated conditional short-circuit current with back-up fuse0Rated conditional short-circuit current with back-up fuse0Rated conditional short-circuit current with downstream fuse0Rated short-time withstand current (icw)0Rated short-time withstand current (t= 0.3 s)0Rated operating frequency2 kARated short-time withstand current (t= 1 s)2 kARated operating power at AC-3, 400 V0Rated operating power at AC-3, 400 V0Rated operating power at AC-3, 400 V0Rated operating power at AC-23, 400 V0Rated operating power at AC	Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
Rated operational currentRated operational currentRated operational currentRated operational current at AC-21, 400 VRated operational short-circuit current at AC-23, 400 VRated operational short-circuit current with back-up fuseRated short-tircuit current with downstream fuseRated short-tircuit current (t = 0.3 s)Rated short-tircuit making capacity lcm at 690 V, 50/60 HzRated short-tircuit making capacity lcm at 690 V, 50/60 HzRated short-tircuit making capacity lcm at 690 V, 50/60 HzRated short-tircuit making capacity lcm at 690 V, 50/60 HzRated short-tircuit making capacity lcm at 690 V, 50/60 HzRated short-tircuit making capacity lcm at 690 V, 50/60 HzRated short-tircuit making capacity lcm at 690 V, 50/60 HzRated short-tircuit making capacity lcm at 690 V, 50/60 HzRated short-tircuit making capacity lcm at 690 V, 50/60 HzRated short-tircuit making capacity lcm at 690 V, 50/60 HzRated short-tircuit making capacity lcm at 690 V, 50/60 HzRated short-tircuit making capacity lcm at 690 V, 50/60 HzRated short-tircuit making capacity lcm at 690 V, 50/60 HzRated capacity lcm at 690 V, 50/60 Hz <t< td=""><td>Rated impulse withstand voltage (Uimp) at main contacts</td><td>6000 V</td></t<>	Rated impulse withstand voltage (Uimp) at main contacts	6000 V
Rated permanent current at AC-21, 400 V160 A (690 V AC-22/23A, making and breaking capacity)Rated permanent current at AC-23, 400 V0 ARated conditional short-circuit current with back-up fuse0 ARated conditional short-circuit current with back-up fuse100 kA at 400/415 V 80 kA at 690 V 160 gRRated conditional short-circuit current with downstream fuse100 kA at 690 V 160 gRRated short-time withstand current (Icw)2 kARated short-time withstand current (t = 0.3 s)2 kARated operating frequency2 kARated operating requency50 HzRated operating nower at AC-3, 400 V60 WRated operating power at AC-3, 400 V60 WRated operating power at AC-3, 400 V60 WW90 kW	Rated conditional short-circuit current (Iq)	0 kA
Rated permanent current at AC-23, 400 VO ARated conditional short-circuit current with back-up fuse00 K at 400/415 V 80 k at 690 V 180 g R 100 kA at 690 V 180 g R 100 kA at 690 VRated conditional short-circuit current with downstream fuse01 kA at 690 V 180 g R 100 kA at 400/415 VRated short-time withstand current (lcw)2 kARated short-time withstand current (t = 0.3 s)2 kARated short-time withstand current (t = 1 s)2 kARated short-circuit making capacity lcm at 690 V, 50/60 Hz50 HzRated operating power at AC-3, 400 V6 MWRated operating power at AC-23, 400 V6 MW	Rated operational current	
Rated conditional short-circuit current with back-up fuseIOO kA at 400/415 V 80 kA at 690 V 160 gRRated conditional short-circuit current with downstream fuseIO kA at 690 V 160 gR 100 kA at 400/415 VRated short-time withstand current (Icw)Z kARated short-time withstand current (t = 0.3 s)Z kARated short-time withstand current (t = 1 s)Z kARated short-time withstand current (t = 1 s)Z kARated short-circuit making capacity Icm at 690 V, 50/60 HzZ kARated operating power at AC-3, 400 VK KAKated operating power at AC-3, 400	Rated permanent current at AC-21, 400 V	0 A
Bated conditional short-circuit current with downstream fuseBolk A at 690 V 160 gRRated conditional short-circuit current with downstream fuseD kA at 690 V 160 gR 100 kA at 400/415 VRated short-time withstand current (Icw)Z kARated short-time withstand current (t = 0.3 s)Z kARated short-time withstand current (t = 1 s)Z kARated short-time withstand current (t = 1 s)Z kARated operating frequencyZ kARated short-circuit making capacity Icm at 690 V, 50/60 HzZ kARated operating power at AC-3, 400 VZ kAKated operating power at AC-3, 400 VZ kA <td< td=""><td>Rated permanent current at AC-23, 400 V</td><td>0 A</td></td<>	Rated permanent current at AC-23, 400 V	0 A
I folg R 100 kA at 400/415 VRated short-time withstand current (Icw)2 kARated short-time withstand current (t = 0.3 s)2 kARated short-time withstand current (t = 1 s)2 kARated operating frequency2 kARated operating frequency50 HzRated operating power at AC-3, 400 V6 MWRated operating power at AC-23, 400 V6 MW	Rated conditional short-circuit current with back-up fuse	80 kA at 690 V
Rated short-time withstand current (t = 0.3 s)2 kARated short-time withstand current (t = 1 s)2 kARated operating frequency50 HzRated operating capacity Icm at 690 V, 50/60 Hz2 kARated operating power at AC-3, 400 V6 bRated operating power at AC-23, 400 V7 bRa	Rated conditional short-circuit current with downstream fuse	160 gR
Rated short-time withstand current (t = 1 s)2 kARated operating frequency50 HzRated short-circuit making capacity Icm at 690 V, 50/60 Hz2.8 kARated operating power at AC-3, 400 V60 VRated operating power at AC-23, 400 V <td>Rated short-time withstand current (Icw)</td> <td>2 kA</td>	Rated short-time withstand current (Icw)	2 kA
Rated operating frequency50 HzRated short-circuit making capacity Icm at 690 V, 50/60 Hz50 HzRated operating power at AC-3, 400 V60 VRated operating power at AC-23, 400 V60 VRated operating power at AC-23, 400 V60 V	Rated short-time withstand current (t = 0.3 s)	2 kA
Rated operating power at AC-23, 400 V 20 Rated operating power at AC-23, 400 V 20	Rated short-time withstand current (t = $1 s$)	2 kA
Rated operating power at AC-3, 400 V 0 kW Rated operating power at AC-23, 400 V 0 kW	Rated operating frequency	50 Hz
Rated operating power at AC-23, 400 V 90 kW	Rated short-circuit making capacity Icm at 690 V, 50/60 Hz	2.8 kA
	Rated operating power at AC-3, 400 V	0 kW
Switching power at 400 V O kW	Rated operating power at AC-23, 400 V	90 kW
	Switching power at 400 V	0 kW

Backara Image: program in a trick and in a contract and in a c	Short-circuit protective device fuses - max	160 A gL
Name of queeces out, constantSecond Second Seco	Electrical connection type of main circuit	Frame clamp
find type Reder iter Devolution spread II Devolution spread II Ideount spread III Devolution spread IIII Ideount spread IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Isolation	
Develope c signay III Publican drigen: III Lillegan, decinial S Direction of regime IIII Direction of regime IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Number of operations per hour - max	120
Polution degree 3 Lifespin, electricial See and Sec and	Handle type	Rocker lever
Lifepan, decinical Million provide and set of the set of t	Overvoltage category	III
Bisseling Bisse	Pollution degree	3
Inchical Data - Machanical Image: Contract of Base and Section Sectin Section Sectin Section Section Section Section Sectin Section Se	Lifespan, electrical	1000 operations at 400 V AC-23A 7500 operations at 400 V AC-1 1000 operations at 415 V AC-23A 5000 operations at 690 V AC-1
Mounting Method From from mounting instructions From from mounting instructions Degree of protection Protection input instructions in the area of the IMI devices) Other From from mounting Distribution houring instructions input in the area of the IMI devices) Other From from mounting Distribution houring instructions input in the area of the IMI devices) Other From from mounting Distribution houring instructions input in the area of the IMI devices) Other From from mounting Distribution houring instructions input in the area of the IMI devices) Other From from mounting Distribution houring instructions input in the area of the IMI devices) Other From from mounting Distributions input instructions in the instructions in the instructions in the instructions in the instruction input instruction input instructinstruction input instructio	Direction of incoming supply	As required
Image: Section Image: Section Degree of protection (IP), front side Image: Section Degree of protection (IP), front side Image: Section Degree of protection (IP), front side Image: Section (IP), front side Degree of protection (IP), front side Image: Section (IP), front side Degree of protection (IP), front side Image: Section (IP), front side Degree of protection (IP), front side Image: Section (IP), front side Degree of protection (IP), front side Image: Section (IP), front side Protection against direct contact Image: Section (IP), front side Number of sublish groups contacts) Image: Section (IP), front side Number of sublish groups contacts) Image: Section (IP), front side Number of sublish groups contacts) Image: Section (IP), front side Number of sublish groups contacts) Image: Section (IP), front side Number of sublish groups contacts) Image: Section (IP), front side Number of sublish groups contacts) Image: Section (IP), front side Number of sublish groups contacts) Image: Section (IP), front side Number of sublish groups contacts) Image: Section (IP), front side Number of sublish groups contacts) Image: Section (IP), front side Number of sublish groups contacts) Image: Section (IP), front side Number of sublish groups con	echnical Data - Mechanical	
Degree of protection (PP), front side Other is defined as a coupling rotary handle) Degree of protection (PP), front side PP6 (with sinking surround) Degree of protection (terminations) PP6 (with sinking surround) Protection against direct contact PP6 (with sinking surround) Shock resistance 20 (the initiations, phase isolator and band terminal) Number of axuiking contacts (change-over contacts) 0 Standard termination 0 Lefsgaan, mechanical 0 Lefsgaan, mechanical 0 Lefsgaan, mechanical 0 <t< td=""><td>Mounting Method</td><td>Built-in device fixed built-in technique Fixed Intermediate mounting</td></t<>	Mounting Method	Built-in device fixed built-in technique Fixed Intermediate mounting
Image: Instant and the second seco	Degree of protection	
Protection against direct contact. Profe (unmail reminal) Protection against direct contact. 20 g (half-sinus/did shock 20 ms) Number of auxiliary contacts (change-over contacts) 0 Number of auxiliary contacts (normally open contacts) 0 System open contacts) 0 System open contacts) 0 Olimade proofing 1.0 Dime proofing 1.0 System open contacts) 0 System open contacts) 0 Euternamical 0 Contact domained merimals 0 System open contacts) 0 System open contacts) 0 System open contacts) 0 System open contacts) 0	Degree of protection (IP), front side	IP66 (with door coupling rotary handle)
Shock restance Z g (half-sinusoidal shock Z0 ms) Number of auxiliary contacts (change-over contacts) 0 Number of auxiliary contacts (normally cload contacts) 0 Standard torminals 10 Connection on rear. Sector Verminal. Tunnel terminal 0 Optional terminals 20mm rel (normal contact) Terminal capacity (aluminum standad conductor/cable) 20mm rel (normal contact) Terminal capacity (aluminum standad conductor/cable) 20mm rel (normal contact) Terminal capacity (copper solid conductor/cable) 20mm rel (normal terminal terminal terminal tenoacit)	Degree of protection (terminations)	
Number of auxiliary contacts (change-over contacts) 0 0 Number of auxiliary contacts (normally closed contacts) 0 0 Number of suxches 0 0 Handle color 1 1 Switch positions 0 0 Climatic proofing 0 0 Special features 0 0 Lifespan, mechanical 0 0 Contact terminals 0 0 Optional terminals 0 0 Terminal capacity (aluminum solid conductor/cable) 0 0 Terminal capacity (copper solid conductor/cable) 0 0 Terminal capacity (copper solid conductor/cable) 0 0 Terminal capacity (copper solid conductor/cable) 0 0 0 Terminal capacity (copper solid conductor/cable) 0 0 0 0 Terminal capacity (copper solid conductor/cable) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Protection against direct contact	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
Number of auxiliary contacts (normaly closed contacts) Image: Contacts (normaly contacts (normaly contacts)) Number of auxiliary contacts (normaly contacts) Image: Contacts (normaly contacts) Number of auxiliary contacts (normaly contacts) Image: Contacts (normaly contacts) Number of auxiliary contacts (normaly contacts) Image: Contacts (normaly contacts) Number of auxiliary contacts (normaly contacts) Image: Contacts (normaly contacts) Switch positions Image: Contacts (normaly contacts) Climatic proofing Image: Contacts (normaly contacts) Special features Image: Contacts (normaly contacts) Special features Image: Contacts (normaly contacts) Climatic proofing Image: Contacts (normaly contacts) Special features Image: Contacts) Special features Image: Contacts) Special features Image: Contacts) Stander terminals Image: Contacts) Optional terminals Contaction on rear. Screw terminal. Turnel terminal Optional terminal capacity (aluminum solid conductor/cable) Image: Contacts) Terminal capacity (copper bushar) Image: Contacts) Terminal capacity (copper solid conductor/cable) Image: Contact to max (1) at thole turnel terminal	Shock resistance	20 g (half-sinusoidal shock 20 ms)
Number of auxiliary contacts (normally open contacts) Image: Contact (Contact) Number of switches 1 Handle color Black Switch positions U Climatic proofing Damp heat, cyclic, to IEC 60068-2-73 Damp heat, cyclic, to IEC 60068-2060 Damp heat, cyclic, to IEC 60068-2060 Damm, 16 mm (1/10 at trunel terminal Damm, 16 mm (1/10 at	Number of auxiliary contacts (change-over contacts)	0
Number of switches 1 Handle color Black Switch positions L,0 Climatic proofing Dam hest, cyclic, In IEC 60088-2-30 Special features Main switch characteristics including positive drive to IEC/EN 60214 and VDE 016 Special features Main switch characteristics including positive drive to IEC/EN 60214 and VDE 016 Lidespan, mechanical Main switch characteristics to IEC/EN 60214 and VDE 016 Dechnical Data - Mechanical - Terminals Main switch characteristics to IEC/EN 60214 and VDE 016 Standard terminals Main switch characteristics on IEC/EN 60214 and VDE 016 Optional terminals Main switch characteristics on IEC/EN 60214 and VDE 016 Terminal capacity (aluminum solid conductor/cable) Main switch characteristics on IEC/EN 60214 and VDE 016 Terminal capacity (aluminum solid conductor/cable) Main service and terminal Terminal capacity (aluminum solid conductor/cable) Main service and terminal Terminal capacity (copper stranded conductor/cable) Main service and terminal Terminal capacity (copper stranded conductor/cable) Main service and terminal Terminal capacity (copper stranded conductor/cable) Main service and terminal Terminal capacity (copper stranded conductor/cable) Main service and terminal	Number of auxiliary contacts (normally closed contacts)	0
Instrument Instrument Handle color Black Switch positions L0 Climatic proofing Damp heat, constant, to IEC 60069-2-78 Special features Damp heat, constant, to IEC 60069-2-78 Special features Main switch characteristics including positive drive to IEC/EN 60204 and VDE 016 Lifespan, mechanical 20000 operations echnical Data - Mechanical - Terminals 20000 operations Standard terminals Exterminal Optional terminals Connection rear. Screw terminal. Tunnel terminal Optional terminals Inorm ⁻¹ 16 mm ⁻¹ (1x) direct at switch rear-side connection Terminal capacity (aluminum stranded conductor/cable) Imm ⁻¹ 6 mm ⁻¹ 15 mm ⁻¹ (2x) direct at switch rear-side connection Terminal capacity (copper solid conductor/cable) Emm ⁻¹ 16 mm ⁻¹ (1x) direct at switch rear-side connection If erminal capacity (copper solid conductor/cable) Emm ⁻¹ 16 mm ⁻¹ (2x) direct at switch rear-side connection If erminal capacity (copper solid conductor/cable) Emm ⁻¹ 16 mm ⁻¹ (1x) direct at switch rear-side connection If erminal capacity (copper stranded conductor/cable) Simm ⁻¹ 16 mm ⁻¹ (2x) direct at switch rear-side connection If erminal capacity (copper stranded conductor/cable) Simm ⁻¹ 16 mm ⁻¹ (1x) at tox terminal <td>Number of auxiliary contacts (normally open contacts)</td> <td>0</td>	Number of auxiliary contacts (normally open contacts)	0
Switch positions L Climatic proofing Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-78 Special features Soliating characteristics in LEC/EN 60204 and VDE 01 Isolating characteristics in LEC/EN 60204 and VDE 01 Dauber target sprood to VDE 0160 Part 100. Lifespan, mechanical 20000 operations echnical Data - Mechanical - Terminals 20000 operations Standard terminals Box terminal Optional terminals Connection on rear. Screw terminal. Tunnel terminal Terminal capacity (aluminum stranded conductor/cable) If and "16 mm" (1x) direct at switch rear-side connection Terminal capacity (copper busbar) Mis a trans-side connection Terminal capacity (copper solid conductor/cable) Stand * 6 mm" - 16 mm" (1x) direct at switch rear-side connection Terminal capacity (copper solid conductor/cable) Stand * 16 mm" - 16 mm" (2x) direct at switch rear-side connection Terminal capacity (copper solid conductor/cable) Stand * 16 mm" - 16 mm" (2x) direct at switch rear-side connection Terminal capacity (copper stranded conductor/cable) Stand * 20 mm" - 16 mm" (2x) direct at switch rear-side connection Terminal capacity (copper stranded conductor/cable) Stamm * 16 mm" (2x) direct at switch r	Number of switches	1
Clinatic proofing Damp heat, constant, to IEC 60068-2-78 Special features Damp heat, cyclic, to IEC 60068-2-30 Special features Main synth characteristics in Cluding positive drive to IEC/EN 60204 and VDE 001 Isolating characteristics to IEC/EN 0600-B4-230 Main synth characteristics to IEC/EN 0600-B4-230 Lifespan, mechanical 2000 operations echnical Data - Mechanical - Terminals 2000 operations Standard terminals Box terminal Optional terminals Box terminal Optional terminals Connection on rear. Screw terminal. Tunnel terminal Terminal capacity (aluminum solid conductor/cable) IO ma ² - 16 mm ² (1x) direct at switch rear-side connection Terminal capacity (copper busbar) Main direct at switch rear-side connection Terminal capacity (copper solid conductor/cable) Standard terminal Terminal capacity (copper stranded conductor/cable) Standard terminal Terminal capacity (copper stranded conductor/cable) Standard terminal Terminal capacity (copper stranded conductor/cable		
Special features Damp heat, cyclic, to IEC 60068-2-30 Special features Miss switch characteristics including positive drive to IE/2/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Pert 100. Rated current = rated uninterrupted current 160 A Lifespan, mechanical 20000 operations echnical Data - Mechanical - Terminals 20000 operations Standard terminals Optional terminal Optional terminals Connection on rear. Screw terminal. Tunnel terminal Terminal capacity (aluminum solid conductor/cable) Imm ² 16 mm ² (1x) direct at switch rear-side connection 16 mm ⁻¹ (1x) direct at switch rear-side connection 16 mm ⁻¹ (1x) at tunnel terminal Terminal capacity (copper busbar) Mis at rear-side screw connection Max. 16 mm x 5 mm direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection 10 mm ⁻¹ (1x) direct at switch rear-side connection 10 mm ⁻¹		
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echnical Data - Mechanical - Terminals Box terminal Standard terminals Box terminal Optional terminals Connection on rear. Screw terminal. Tunnel terminal Terminal capacity (aluminum solid conductor/cable) 10 mm² - 16 mm² (1x) direct at switch rear-side connection Terminal capacity (aluminum stranded conductor/cable) 25 mm² - 95 mm² (1x) at 1-hole tunnel terminal Terminal capacity (copper busbar) M6 at rear-side screw connection Terminal capacity (copper solid conductor/cable) 5 mm² - 16 mm² (2x) direct at switch rear-side connection Terminal capacity (copper solid conductor/cable) 6 mm² - 16 mm² (2x) direct at switch rear-side connection Terminal capacity (copper stranded conductor/cable) 8 mm² - 16 mm² (2x) direct at switch rear-side connection Terminal capacity (copper stranded conductor/cable) 6 mm² - 16 mm² (2x) direct at switch rear-side connection Terminal capacity (copper stranded conductor/cable) 25 mm² - 25 mm² (2x) direct at switch rear-side connection Terminal capacity (copper stranded conductor/cable) 25 mm² - 16 mm² (1x) at 1-hole tunnel terminal Terminal capacity (copper stranded conductor/cable) 25 mm² - 26 mm² (2x) direct at switch rear-side connection 10 mm² - 16 mm² (1x) at 1-hole tunnel terminal 25 mm² - 26 mm² (1x) at 10 m² - 16 m² (1	Special features	Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100.
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Optional terminals Connection on rear. Screw terminal. Tunnel terminal Terminal capacity (aluminum solid conductor/cable) Io mm² - 16 mm² (1x) direct at switch rear-side connection Terminal capacity (aluminum stranded conductor/cable) 25 mm² - 95 mm² (1x) at 1-hole tunnel terminal Terminal capacity (copper busbar) M6 at rear-side screw connection Terminal capacity (copper solid conductor/cable) 6 mm² - 16 mm² (2x) direct at switch rear-side connection Terminal capacity (copper solid conductor/cable) 6 mm² - 16 mm² (2x) direct at switch rear-side connection Terminal capacity (copper solid conductor/cable) 6 mm² - 16 mm² (1x) at tunnel terminal Terminal capacity (copper stranded conductor/cable) 25 mm² - 95 mm² (2x) direct at switch rear-side connection Terminal capacity (copper stranded conductor/cable) 6 mm² - 16 mm² (1x) at tunnel terminal Terminal capacity (copper stranded conductor/cable) 25 mm² - 95 mm² (2x) direct at switch rear-side connection 16 mm² (1x) at box terminal Terminal capacity (copper stranded conductor/cable) 25 mm² - 25 mm² - 25 mm² (2x) direct at switch rear-side connection 25 mm² (2x) at box terminal Terminal capacity (copper stranded conductor/cable) 25 mm² (2x) direct at switch rear-side connection 16 mm² (1x) direct at switch rear-side connection 25 mm² - 25 mm²	echnical Data - Mechanical - Terminals	
Terminal capacity (aluminum solid conductor/cable)Image: Constant of the second se	Standard terminals	Box terminal
If is main and the isometry in the isometry is the isometry isometry isometry (copper busbar)If is main and the isometry i	Optional terminals	Connection on rear. Screw terminal. Tunnel terminal
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Terminal capacity (copper stranded conductor/cable) Image: stranded conductor/ca	Terminal capacity (copper busbar)	M6 at rear-side screw connection Min. 12 mm x 5 mm direct at switch rear-side connection
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	Terminal capacity (copper stranded conductor/cable)	6 mm ² - 25 mm ² (2x) at box terminal 25 mm ² - 70 mm ² (1x) direct at switch rear-side connection Terminal capacity hint: Up to 95 mm ² can be connected depending on the cable manufacturer 25 mm ² - 95 mm ² (1x) at 1-hole tunnel terminal
	Terminal capacity (copper strip)	

Retd operational current of sepacified heat dissipation (in) 184 A Equipment heat dissipation, current dependent 23.18 W Ambient operating temperature - max 70 °C Ambient operating temperature - max 70 °C Ambient operating temperature - max 70 °C Design verification as per IEC/EN 61439 70 °C Design verification as per IEC/EN 61439 70 °C Dis2.2 Origon resistance Meets the product standard's requirements. 102.2.2 Verification of resulting materials to normal heat Meets the product standard's requirements. 102.2.2 Verification of resultance of insultang materials to normal heat Meets the product standard's requirements. 102.2.3 Verification of resultance of insultang materials to normal heat Meets the product standard's requirements. 102.2.4 Verification of estantance of insultang materials Meets the product standard's requirements. 102.4 Resistance to ultra-violet (UV) relation Meets the product standard's requirements. 102.5 Uring Dees not apply, since the entrine switchgear needs to be evaluated. 102.6 Iring Meets the product standard's requirements. 103.0 gree of protection of assembles Meets the product standard's requirements. 103.2 Foreor of protection of assembles Meets the product standard's		
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Design verification as per IEC/EN 61439 Meets the product standard's requirements. 10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2.3.1 Verification of tresistance of insulating materials to normal heat Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects Meets the product standard's requirements. 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 10.2.5 Lifting Des ont apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact Meets the product standard's requirements. 10.3 Degree of protection of assemblies Meets the product standard's requirements. 10.3 Degree of protection of assemblies Meets the product standard's requirements. 10.4 Degree of protection of assemblies Dees not apply, since the entire switchgear needs to be evaluated. 10.4 Degree of protection dissemblies Des not apply, since the entire switchgear needs to be evaluated. 10.4 Termal electrical circuits and components Des not apply, since the entire switchgear needs to be evaluated. 10.4 Termal electrical circuits and connections Is the panel builder's responsibility.	Ambient storage temperature - min	40 °C
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10.2.3 Verification of resistance of insulating materials to normal head fire by internal elect. effects Meets the product standard's requirements. 10.2.3 Resist. of insul. mat. to abnormal head/fire by internal elect. effects Meets the product standard's requirements. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Meets the product standard's requirements. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections Meets the product standard's requirements. 10.8 Connections of external conductors Does not apply, since the entire switchgear needs to be evaluated. 10.9.1 Power-frequency electric strength Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material Internal builder's responsibility. 10.9.1 Temperature rise Is the panel builder's responsibility. 10.9.2 Fleetcromagnetic compatibility Insume adde in the devices. 10.9.3 Inguise withstand voltage Is the panel b	10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effectsMeets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationDees not apply, since the entire switchgear needs to be evaluated.10.2.5 LiftingDees not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of assembliesDees not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDees not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDees not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsDees not apply, since the entire switchgear needs to be evaluated.10.8.2 Protection against velteric strengthIs the panel builder's responsibility.10.8.2 Protection against of enclosures made of insulating materialIs the panel builder's responsibility.10.9.4 Testing of enclosures made of insulating materialIs the panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 Electromagnetic compatibilityIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 Mechanical functionInterlockableFunctionsInterlockable	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
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	Functions	

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Switch disconnector (low voltage) (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])

[AKFU6UU18])		
Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		No
Version as emergency stop installation		Yes
Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	А	160
Rated permanent current at AC-23, 400 V	А	0
Rated permanent current at AC-21, 400 V	А	0
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current lcw	kA	2
Rated operation power at AC-23, 400 V	kW	90
Switching power at 400 V	kW	0
Conditioned rated short-circuit current Iq	kA	0
Number of poles		4

Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
Motor drive optional		No
Motor drive integrated		No
Voltage release optional		No
Device construction		Built-in device fixed built-in technique
Suitable for floor mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		Yes
Suitable for intermediate mounting		Yes
Colour control element		Black
Type of control element		Rocker lever
Interlockable		Yes
Type of electrical connection of main circuit		Frame clamp
With pre-assembled cabling		No
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other
Width	mm	120
Height	mm	145
Depth	mm	88
Width in number of modular spacings		