Moulded Case Circuit Breakers (GM2-100)

Introduction

Compact circuit breakers					GM2-100	
Number of poles					3	4
Control	Manual	Toggle			■	
		Direct or extended rotary handle			■	
	Electric				■	
Connections	Fixed	Front connection			■	
		Rear connection			■	
	Withdrawable (on chassis)	Front connection			■	
		Rear connection			■	
Electrical characteristics as per IEC60947-2 and GB14048.2						
Rated current(A)		In	40℃		100	
Rated insulation voltage(V)		Ui			750	
Rated impulse withstand voltage(KV)		Uimp			8	
Rated operational voltage(V)		Ue	AC 50/60Hz		400	
Type of circuit breaker					N	H
Ultimate breaking capacity (KA rms)		Icu	AC 50/60Hz	400V	35	80
Service breaking capacity		Ics	%Icu		100%	
Suitability for isolation					■	
Utilization category					A	
Max. demand current (C-O cycles)	Mechanical				50000	
	Electrical		440V	In/2	50000	
				In	30000	
Trial longevity	Overload/no overload/total sum				1000/8500/9500	
Protection						
Trip units					Thermal magnetic type	
					Electronic type (STK22SE)	
Overload protection	Long time	Ir(In×...)			■	
Short-circuit protection	Short time	Isd (Ir×...)			-	
	Instantaneous	Ii(In×...)			■	
Residual earth leakage protection		Vigi module			■	
Indication and control auxiliaries						
Auxiliary switch					■	
MX shunt and MN undervoltage winding					■	
Installation						
Accessories	Terminal extension and spreaders				■	
	Terminal shields and interphase barriers				■	

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Moulded Case Circuit Breakers (GM2-160)

Introduction

Compact circuit breakers					GM2-160	
Number of poles					3	4
Control	Manual	Toggle			■	
		Direct or extended rotary handle			■	
	Electric				■	
Connections	Fixed	Front connection			■	
		Rear connection			■	
	Withdrawable (on chassis)	Front connection			■	
		Rear connection			■	
Electrical characteristics as per IEC60947-2 and GB14048.2						
Rated current(A)		In	40℃		160	
Rated insulation voltage(V)		Ui			750	
Rated impulse withstand voltage(KV)		Uimp			8	
Rated operational voltage(V)		Ue	AC 50/60Hz		400	
Type of circuit breaker					N	H
Ultimate breaking capacity (KA rms)		Icu	AC 50/60Hz	400V	35	80
Service breaking capacity		Ics	%Icu		100%	
Suitability for isolation					■	
Utilization category					A	
Max. demand current (C-O cycles)	Mechanical				40000	
	Electrical		440V	In/2	40000	
				In	20000	
Trial longevity	Overload/no overload/total sum				850/7000/7850	
Protection						
					Thermal magnetic type	
Trip units					Electronic type (STK22SE)	
Overload protection	Long time	Ir(In×...)			■	
Short-circuit protection	Short time	Isd (Ir×...)			■	
	Instantaneous	Ii(In×...)			■	
Residual earth leakage protection		Vigi module			■	
Indication and control auxiliaries						
Auxiliary switch					■	
MX shunt and MN undervoltage winding					■	
Installation						
Accessories	Terminal extension and spreaders				■	
	Terminal shields and interphase barriers				■	

Moulded Case Circuit Breakers (GM2-250)

Introduction

Compact circuit breakers					GM2-250	
Number of poles					3	4
Control	Manual	Toggle			■	
		Direct or extended rotary handle			■	
	Electric				■	
Connections	Fixed	Front connection			■	
		Rear connection			■	
	Withdrawable (on chassis)	Front connection			■	
		Rear connection			■	
Electrical characteristics as per IEC60947-2 and GB14048.2						
Rated current(A)		In	40℃		250	
Rated insulation voltage(V)		Ui			750	
Rated impulse withstand voltage(KV)		Uimp			8	
Rated operational voltage(V)		Ue	AC 50/60Hz		400	
Type of circuit breaker					N	H
Ultimate breaking capacity (KA rms)		Icu	AC 50/60Hz	400V	35	80
Service breaking capacity		Ics	%Icu		100%	
Suitability for isolation					■	
Utilization category					A	
Max. demand current (C-O cycles)	Mechanical				20000	
	Electrical		440V	In/2	20000	
				In	10000	
Trial longevity	Overload/no overload/total sum				850/7000/7850	
Protection						
					Thermal magnetic type	
Trip units					Electronic type (STK22SE)	
Overload protection	Long time	Ir(In×...)			■	
Short-circuit protection	Short time	Isd (Ir×...)			■	
	Instantaneous	Ii(In×...)			■	
Residual earth leakage protection		Vigi module			■	
Indication and control auxiliaries						
Auxiliary switch					■	
MX shunt and MN undervoltage winding					■	
Installation						
Accessories	Terminal extension and spreaders				■	
	Terminal shields and interphase barriers				■	

1

Industrial Circuit Brakers (GM2-400)

Introduction

Compact circuit breakers					GM2-400	
Number of poles					3	4
Control	Manual	Toggle			■	
		Direct or extended rotary handle			■	
	Electric				■	
Connections	Fixed	Front connection			■	
		Rear connection			■	
	Withdrawable (on chassis)	Front connection			■	
		Rear connection			■	
Electrical characteristics as per IEC60947-2 and GB14048.2						
Rated current(A)		In	40℃		400	
Rated insulation voltage(V)		Ui			750	
Rated impulse withstand voltage(KV)		Uimp			8	
Rated operational voltage(V)		Ue	AC 50/60Hz		400	
Type of circuit breaker					N	H
Ultimate breaking capacity (KA rms)		Icu	AC 50/60Hz	400V	40	80
Service breaking capacity		Ics	%Icu		100%	
Suitability for isolation					■	
Utilization category					A	
Max. demand current (C-O cycles)	Mechanical				15000	
	Electrical		440V	In/2	12000	
				In	6000	
Trial longevity	Overload/no overload/total sum				850/4000/4850	
Protection						
Trip units					Electronic type (STK23SE)	
Overload protection	Long time	Ir(In×...)			■	
Short-circuit protection	Short time	Isd (Ir×...)			■	
	Instantaneous	Ii(In×...)			■	
Residual earth leakage protection		Vigi module			■	
Indication and control auxiliaries						
Auxiliary switch					■	
MX shunt and MN undervoltage winding					■	
Installation						
Accessories	Terminal extension and spreaders				■	
	Terminal shields and interphase barriers				■	

Moulded Case Circuit Breakers (GM2-630)

Introduction

Compact circuit breakers					GM2-630	
Number of poles					3	4
Control	Manual	Toggle			■	
		Direct or extended rotary handle			■	
	Electric				■	
Connections	Fixed	Front connection			■	
		Rear connection			■	
	Withdrawable (on chassis)	Front connection			■	
		Rear connection			■	
Electrical characteristics as per IEC60947-2 and GB14048.2						
Rated current(A)		In	40℃		630	
Rated insulation voltage(V)		Ui			750	
Rated impulse withstand voltage(KV)		Uimp			8	
Rated operational voltage(V)		Ue	AC 50/60Hz		400	
Type of circuit breaker					N	H
Ultimate breaking capacity (KA rms)		Icu	AC 50/60Hz	400V	40	80
Service breaking capacity		Ics	%Icu		100%	
Suitability for isolation					■	
Utilization category					A	
Max. demand current (C-O cycles)	Mechanical				15000	
	Electrical		440V	In/2	8000	
				In	4000	
Trial longevity	Overload/no overload/total sum				850/4000/4850	
Protection						
Trip units					Electronic type(STK53UE)	
Overload protection	Long time	Ir(In×...)			■	
Short-circuit protection	Short time	Isd (Ir×...)			■	
	Instantaneous	Ii(In×...)			■	
Residual earth leakage protection		Vigi module			■	
Indication and control auxiliaries						
Auxiliary switch					■	
MX shunt and MN undervoltage winding					■	
Installation						
Accessories	Terminal extension and spreaders				■	
	Terminal shields and interphase barriers				■	

1

Adjustable MCCB (GM2-800 Electronic type)

Introduction

Compact circuit breakers					GM2-800	
Number of poles					3	4
Control	Manual	Toggle			■	
Connections	Fixed	Front connection			■	
		Rear connection			■	
Electrical characteristics as per IEC60947-2 and GB14048.2						
Rated current(A)		In	50℃		800	
			65℃			
Rated insulation voltage(V)		Ui			750	
Rated impulse withstand voltage(KV)		Uimp			8	
Rated operational voltage(V)		Ue	AC 50/60Hz		690	
Type of circuit breaker					N	
Ultimate breaking capacity (KA rms)		Icu	AC 50/60Hz	400V	50	
Service breaking capacity		Ics	%Icu		75%	
Short-time withstand current (KA rms) V AC 50/60Hz		Icw	0.5s		25	
			1s		17	
Suitability for isolation					■	
Utilization category					B	
Max. demand current (C-O cycles)	Mechanical				50000	
	Electrical		440V	In/2	6000	
				In	5000	
			690V	In/2	4000	
				In	2000	
Pollution degree					III	
Protection						
Interchangeable control units					Electronic type(STK2.0)	
Overload protection	Long time	Ir(In×...)			■	
Short-circuit protection	Short time	Isd (Ir×...)			–	
	Instantaneous	Ii(In×...)			■	
Control auxiliaries						
Auxiliary switch					■	
MX shunt and MN undervoltage winding					■	

MCCB Circuit Breakers (Electronic type)

Introduction

Compact circuit breakers					GM2-1000	
Number of poles					3	4
Control	Manual	Toggle			■	
Connections	Fixed	Front connection			■	
		Rear connection			■	
Electrical characteristics as per IEC60947-2 and GB14048.2						
Rated current(A)		In	50℃		800	
			65℃			
Rated insulation voltage(V)		Ui			750	
Rated impulse withstand voltage(KV)		Uimp			8	
Rated operational voltage(V)		Ue	AC 50/60Hz		690	
Type of circuit breaker					N	
Ultimate breaking capacity (KA rms)		Icu	AC 50/60Hz	400V	50	
Service breaking capacity		Ics	%Icu		75%	
Short-time withstand current (KA rms) V AC 50/60Hz		Icw	0.5s		25	
			1s		17	
Suitability for isolation					■	
Utilization category					B	
Max. demand current (C-O cycles)	Mechanical				50000	
	Electrical		440V	In/2	6000	
				In	5000	
			690V	In/2	4000	
				In	2000	
Pollution degree					III	
Protection						
Interchangeable control units					Electronic type(STK5.0)	
Overload protection	Long time	Ir(In×...)			■	
Short-circuit protection	Short time	Isd (Ir×...)			■	
	Instantaneous	Ii(In×...)			■	
Control auxiliaries						
Auxiliary switch					■	
MX shunt and MN undervoltage winding					■	

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Molded Case Circuit Breaker (MCCB 1250A electronic type)

Introduction

Compact circuit breakers					GM2-1250	
Number of poles					3	4
Control	Manual	Toggle			■	
Connections	Fixed	Front connection			■	
		Rear connection			■	
Electrical characteristics as per IEC60947-2 and GB14048.2						
Rated current(A)		In	50℃		1250	
			65℃		1000	
Rated insulation voltage(V)		Ui			750	
Rated impulse withstand voltage(KV)		Uimp			8	
Rated operational voltage(V)		Ue	AC 50/60Hz		690	
Type of circuit breaker					N	
Ultimate breaking capacity (KA rms)		Icu	AC 50/60Hz	400V	50	
Service breaking capacity		Ics	%Icu		75%	
Short-time withstand current (KA rms) V AC 50/60Hz		Icw	0.5s		25	
			1s		17	
Suitability for isolation					■	
Utilization category					B	
Max. demand current (C-O cycles)	Mechanical				50000	
	Electrical		440V	In/2	5000	
				In	4000	
			690V	In/2	3000	
				In	2000	
Pollution degree					III	
Protection						
Interchangeable control units					Electronic type(STK5.0)	
Overload protection	Long time	Ir(In×...)			■	
Short-circuit protection	Short time	Isd (Ir×...)			■	
	Instantaneous	Ii(In×...)			■	
Control auxiliaries						
Auxiliary switch					■	
MX shunt and MN undervoltage winding					■	

1600A MCCB

Introduction

Compact circuit breakers					GM2-1600	
Number of poles					3	4
Control	Manual	Toggle			■	
Connections	Fixed	Front connection			■	
		Rear connection			■	
Electrical characteristics as per IEC60947-2 and GB14048.2						
Rated current(A)		In	50℃		1600	
			65℃		1250	
Rated insulation voltage(V)		Ui			750	
Rated impulse withstand voltage(KV)		Uimp			8	
Rated operational voltage(V)		Ue	AC 50/60Hz		690	
Type of circuit breaker					N	
Ultimate breaking capacity (KA rms)		Icu	AC 50/60Hz	400V	50	
Service breaking capacity		Ics	%Icu		75%	
Short-time withstand current (KA rms) V AC 50/60Hz		Icw	0.5s		25	
			1s		17	
Suitability for isolation					■	
Utilization category					B	
Max. demand current (C-O cycles)	Mechanical				50000	
	Electrical		440V	In/2	5000	
				In	4000	
			690V	In/2	3000	
				In	2000	
Pollution degree					III	
Protection						
Interchangeable control units					Electronic type(STK5.0)	
Overload protection	Long time	Ir(In×...)			■	
Short-circuit protection	Short time	Isd (Ir×...)			■	
	Instantaneous	Ii(In×...)			■	
Control auxiliaries						
Auxiliary switch					■	
MX shunt and MN undervoltage winding					■	

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Auxiliary Contacts of MCCB

Indication contacts

Common-point changeover contacts are used to remote circuit breaker status information and can thus be used for indications, electrical locking, relaying, etc. They comply with the IEC 60947-5 international recommendation.

Functions

- OF (ON/OFF) - indicates the position of the circuit breaker contacts
- SD (trip indication) - indicates that the circuit breaker has tripped due to:
  an overload
  a short-circuit
  an earth-leakage fault
  operation of a voltage release
  operation of the “push to trip” button
  disconnection when the device is ON.
  Returns to de-energised state when the circuit breaker is reset.
- SDE (fault indication) - indicates that the circuit breaker has tripped due to:
  an overload
  a short-circuit
  an earth-leakage fault.
  Returns to de-energised state when the circuit breaker is reset.
- SDV (Earth-leakage fault indication) - indicates that the circuit breaker has tripped due to an earth fault. Returns to de-energised state when the circuit breaker is reset.
- CAM (early-make or early-break function) - indicates the position of the rotary handle. Used in particular for advanced opening of safety trip devices (early break) or to energise a control device prior to circuit breaker closing (early make)
- CE / CD (connected/disconnected position) - microswitch type carriage switches for withdrawable circuit breakers

Installation

- OF, SD, SDE and SDV functions - a single type of contact provides all these different indication functions, depending on where it is inserted in the device. The contacts clip into slots behind the front cover of the circuit breaker (or the Vigi module for the SDV function).
- The SDE function on a circuit breaker equipped with a thermal-magnetic trip unit requires the SDE actuator.
- CAM function - the contact fits into the rotary-handle unit (direct or extended). CE / CD (connected/disconnected) function.

Electrical characteristics of auxiliary contacts

Contacts		Standard				Low level			
Rated thermal current(A)		6				5			
Minimum load		100mA V24				2mA,15V DC			
Utilisation cat. (IEC 60947-5-1)		AC12	AC15	DC12	DC14	AC12	AC15	DC12	DC14
Operational Vcurrent(A)	24V	6	6	6	1	5	3	5	1
	48V	6	6	2.5	0.2	5	3	2.5	0.2
	110V	6	5	0.6	0.05	5	2.5	0.6	0.05
	220/240V	6	4	-	-	5	2	-	-
	250V	-	-	0.3	0.03	5	-	0.3	0.03
	380/440V	6	2	-	-	5	1.5	-	-
	480V	6	1.5	-	-	5	1	-	-
	660/690V	6	0.1	-	-	-	-	-	-

Under voltage Release and Shunt Release

Remote tripping

MX or MN voltage releases are used to trip the circuit breaker.

MN undervoltage release

This release trips the circuit breaker when the control voltage drops below a tripping threshold:
- tripping threshold between 0.35 and 0.7 times the rated voltage
- circuit breaker closing is possible if the voltage exceeds 0.85 times the ratedvoltage.
For a lower value, circuit breaker closing cannot be guaranteed.
Circuit breaker tripping by an MN release meets the requirements of standard IEC 60947-2.

Time-delay unit for an MN release

Eliminates nuisance tripping due to transient voltage dips lasting 200 ms. It is used in conjunction with:
- a 250 V DC MN release, control voltage 220/240 V AC
- a 48 V DC MN release, control voltage 48 V AC.

MX shunt release

Trips the circuit breaker when the control voltage rises above 0.7 x Un.
Control signals can be of the impulse type (u 20 ms) or maintained.

Operation

When the circuit breaker has been tripped by an MN or MX release, it must be reset locally.
MN or MX tripping takes priority over manual closing.
In the presence of a standing trip order, closing of the contacts, even temporary, is not possible.

Mechanical characteristics

endurance is equal to 50 % of the mechanical endurance of the circuit breaker
the releases clip in behind the front cover
connection using wires up to 1.5 mm2, to integrated terminal blocks.

Electrical characteristics

consumption:
- pick-up (MX): < 10 VA
- seal-in (MN and MNR): < 5 VA.
response time: < 50 ms.

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Rotary Handle (Direct and Extended)

Rotary handles

There are two types of rotary handle:
- direct rotary handle
- extended rotary handle.

There are two models:
- standard with a black handle
- VDE with a red handle and yellow front for machine-tool control.

Direct rotary handle

Degree of protection IP40, IK07. The direct rotary handle maintains:
- visibility of and access to trip unit settings
- suitability for isolation
- indication of the three positions O (OFF), I (ON) and tripped
- access to the “push to trip” button
- circuit breaker locking capability in the OFF position by one to three padlocks, shackle diameter 5 to 8 mm (not supplied).
- It replaces the circuit breaker front cover.
- Accessories transform the standard direct rotary handle for the following situations:
- motor control centre (MCC) switchboards:
- door opening disabled when the circuit breaker is ON
- circuit breaker closing is disabled if the door is open
- a higher degree of protection (IP43, IK07)
- machine-tool control, complying with CNOMO E03.81.501, IP54, IK08.

Extended rotary handle

Degree of protection IP 55, IK08. This handle makes it poss ble to operate circuit breakers installed at the back of switchboards, from the switchboard front. It maintains:

- suitability for isolation
- indication of the three positions O (OFF), I (ON) and tripped
- access to trip unit settings, when the switchboard door is open
- circuit breaker locking capability in the OFF position by one to three padlocks, shackle diameter 5 to 8 mm (not supplied). The door cannot be opened if the circuit breaker is ON or locked. The extended rotary handle is made up of:
- a unit that replaces the front cover of the circuit breaker (secured by screws)
- an assembly (handle and front plate) on the door that is always secured in the same position, whether the circuit breaker is installed vertically or horizontally
- an extension shaft that must be adjusted to the distance. The min/max distance between the back of circuit breaker and door is:
  1. 185 to 600 mm for Compact NS100 to 250
  2. 210 to 625 mm for Compact NS400 to 630.

For withdrawable configurations, the extended rotary handle is also available with a telescopic shaft with two stable positions.

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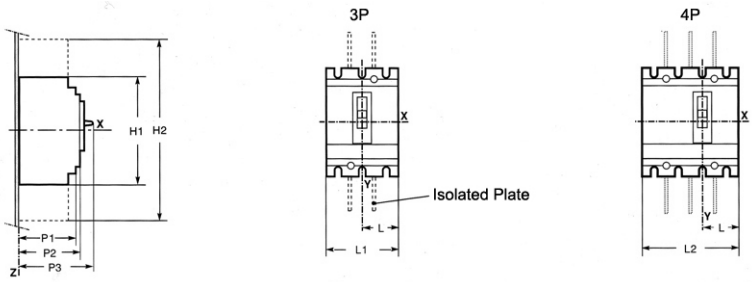
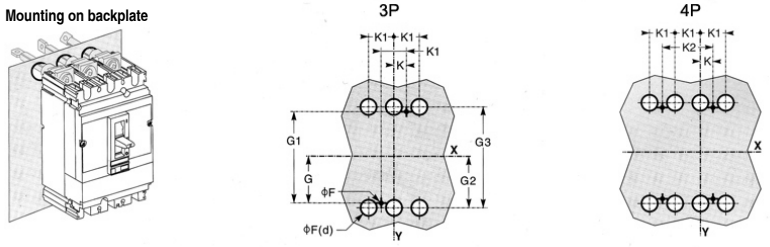
Mounting and outline of GM2-100～630 fixed type

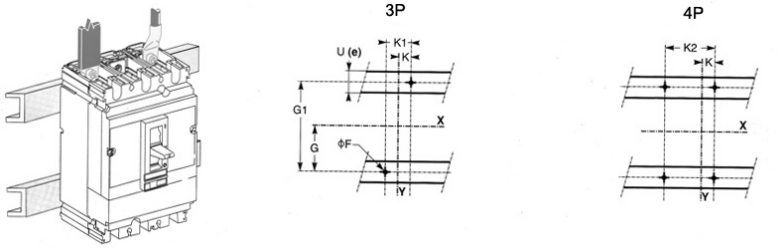
Dimension



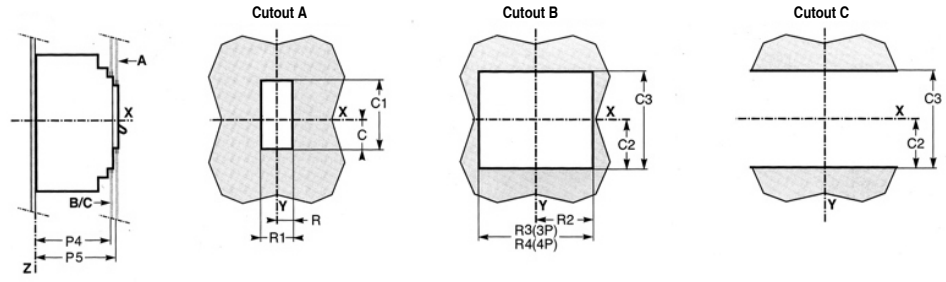
Mounting



Mounting on rail

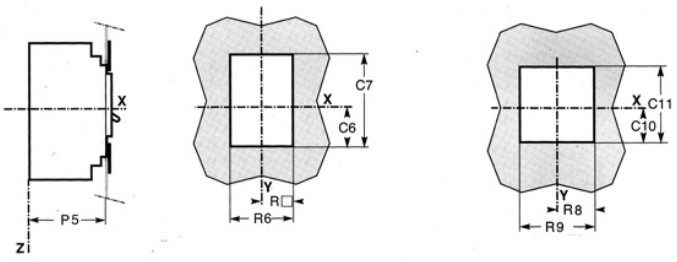


Front panel cutouts



With escutcheon

With toggle cover



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Dimension (mm)

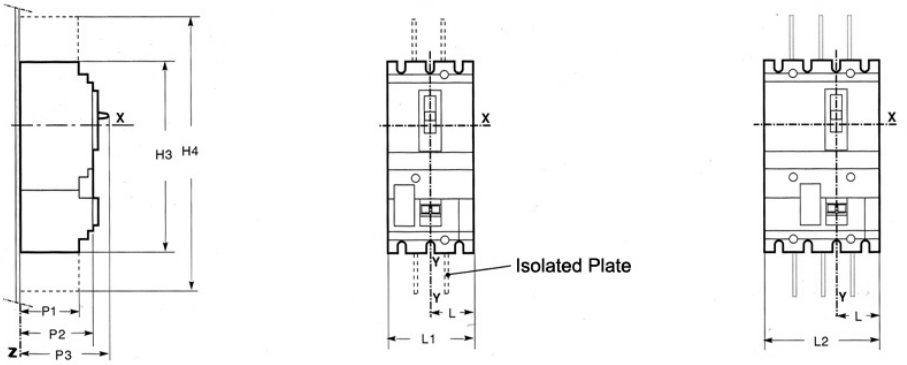
Model	C	C1	C2	C3	C6	C7	C10	C11	G	G1	G2
GM2-100/160/250N/H	29	76	54	108	43	104	34	86	62.5	125	70
GM2-400/630N/H	41.5	116	92.5	184	56.5	146	46.5	126	100	200	113.5

Model	G3	H1	H2	K	K1	K2	L	L1	L2	P1	P2
GM2-100/160/250N/H	140	164	274	17.5	35	70	52.5	105	140	76	86
GM2-400/630N/H	227	256	476	22.5	45	90	70	140	185	95.5	110

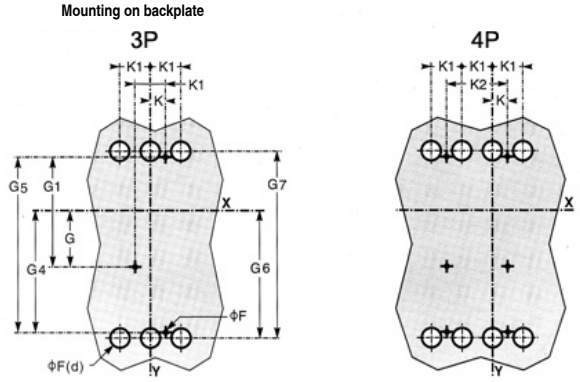
Model	P3	P4	P5	R	R1	R2	R3	R4	R5	R6	R8
GM2-100/160/250N/H	111[1]	83	88	14.5	29	54	108	143	29	58	43
GM2-400/630N/H	168	107	112	31.5	63	71.5	143	188	46.5	93	63

Model	R9	ØF	F(d)	U[e]
GM2-100/160/250N/H	86	6	22	≤32
GM2-400/630N/H	126	6	32	≤32

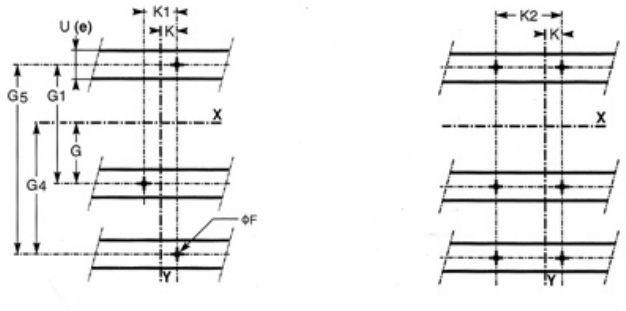
Dimension



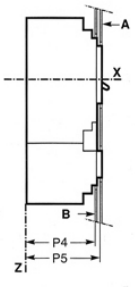
Mounting

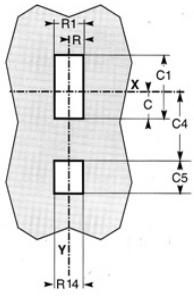


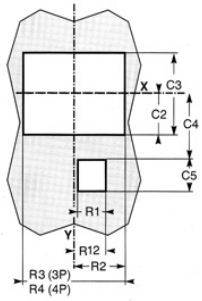
Mounting on rail



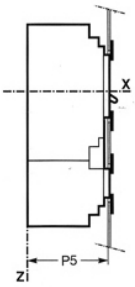
Front panel cutouts

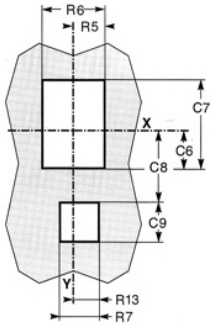






With escutcheon





Dimension (mm)

Model	C	C1	C2	C3	C4	C5	C6	C7	C8	C9	G	G1	G4	G5	G6	G7	H3	H4
GM2-100/160/250N/H	29	76	54	108	89	38	43	104	71	68	62.5	125	137.5	200	145	215	236	350
GM2-400/630N/H	41.5	116	92.5	184	150	38	56.5	146	132	68	100	200	200	300	213.5	327	355	575

Model	K	K1	K2	L	L1	L2	P1	P2	P3	P4	P5	R	R1
GM2-100/160/250N/H	17.5	35	70	52.5	105	140	73	86	111(1)	83	88	14.5	29
GM2-400/630N/H	22.5	45	90	70	140	185	95.5	111	168	107	112	31.5	63

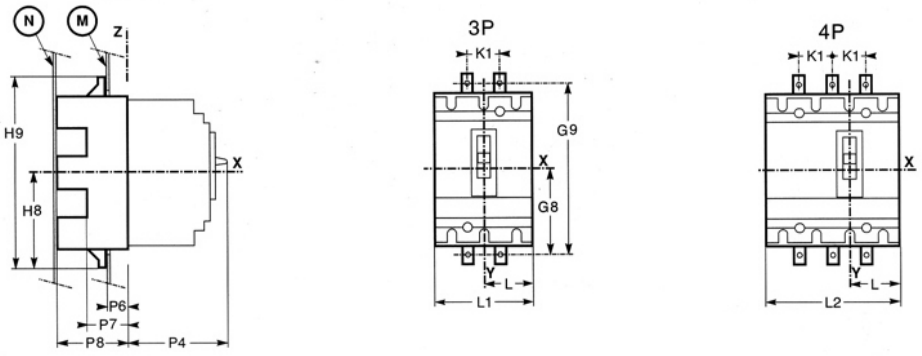
(1):P4=126mm, GM2-250N/H

Model	R2	R3	R4	R5	R6	R7	R12(1)	R13	R14	ØF	ØF(d)	U(e)
GM2-100/160/250N/H	54	108	143	29	58	58	14.5	29	29	6	22	≤32
GM2-400/630N/H	71.5	143	188	46.5	93	58	32	47	29	6	32	≤32

1

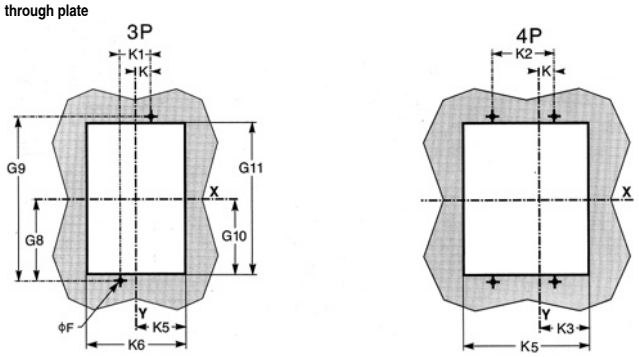
Mounting and outline of GM2-100～630 play-in type

Dimension



Mounting

through plate

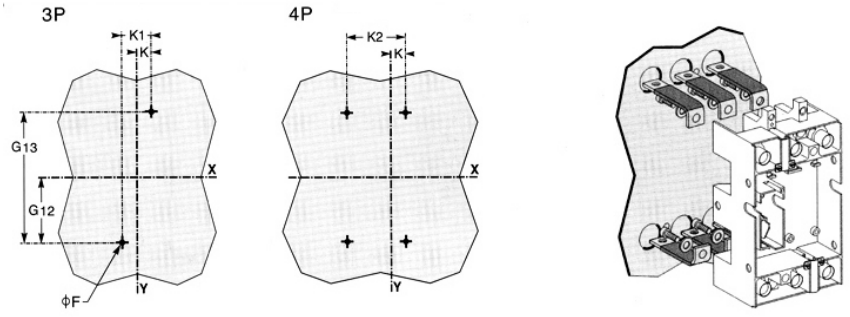


Mounting on rail

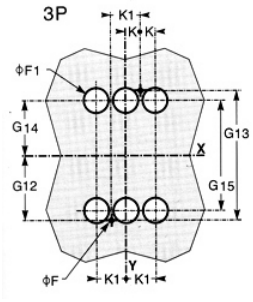
Note: Door cutout dimension are given for a device position in the enclosure where △≥100+(hx5)

On backplate N (play-in bace or chassis)

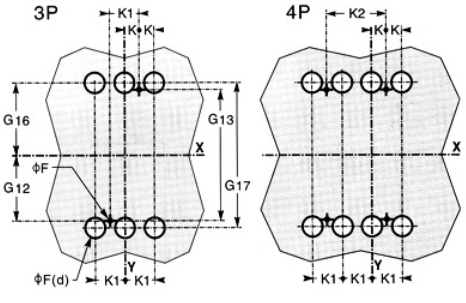
Front connection (insulating screen is mandatory between the backplate and the base, supplied with the base)



Interior rear connection



Exterior rear connection



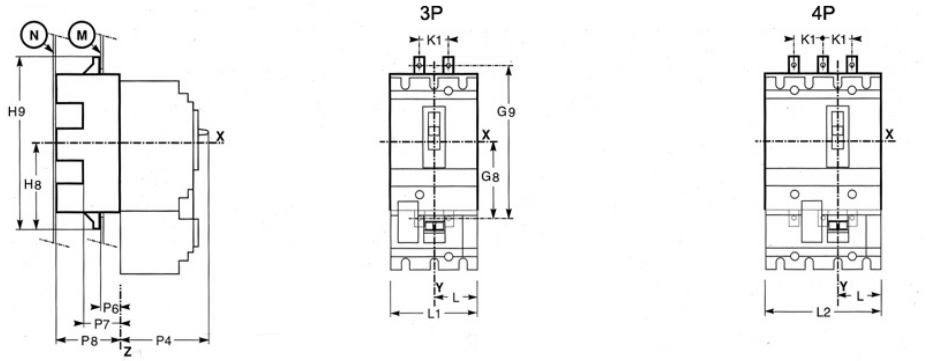
Dimension(mm)

Model	G8	G9	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	H8	H9
GM2-100/160/250N/H	95	190	87	174	77.5	155	69	138	74	148	37.5	75	102.5	205
GM2-400/630N/H	150	300	137	274	125	250	115	230	116	242	75	150	156	312

Model	K	K1	K2	K3	K4	K5	K6	K7	K8	L	L1	L2	L3	P6
GM2-100/160/250N/H	17.5	35	70	54.5	109	144	35	70	105	52.5	105	140	111(1)	27
GM2-400/630N/H	22.5	45	90	71.5	143	188	50	100	145	70	140	185	168	27

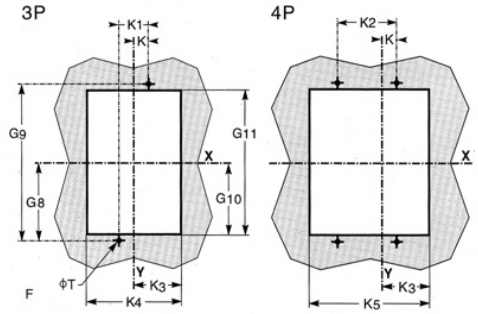
Model	P7	P8	U(2)	ØF	F(d)	ØF1
GM2-100/160/250N/H	45	75	≤32	6	24	30
GM2-400/630N/H	45	100	≤32	6	33	33

Dimension

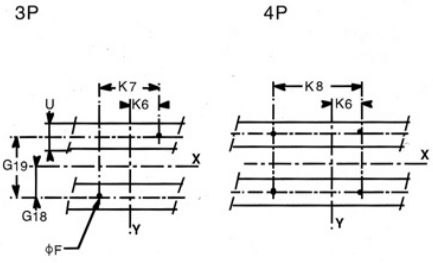


Mounting

On rail



Through plate



Dimension(mm)

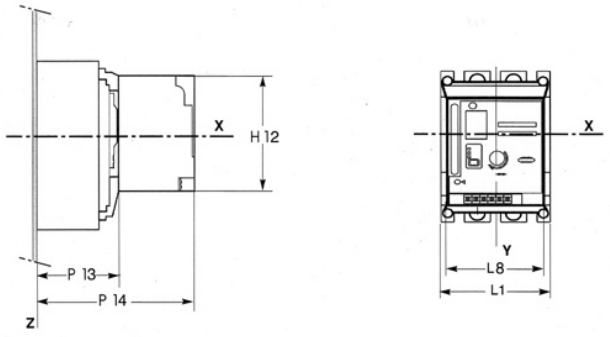
Model	G8	G9	G10	G11	G18	G19	H8	H9	K	K1	K2	K3	K4
GM2-100/160/250N/H	95	190	87	174	37.5	75	102.5	205	17.5	35	70	54.5	109
GM2-400/630N/H	150	300	137	274	75	150	157.5	315	22.5	45	90	71.5	143

Model	K5	K6	K7	K8	L	L1	L2	P3	P6	P7	P8	ØF	U(2)
GM2-100/160/250N/H	144	35	70	105	52.5	105	140	111(1)	27	45	75	6	≤32
GM2-400/630N/H	188	50	100	145	70	140	185	168	27	45	100	6	≤32

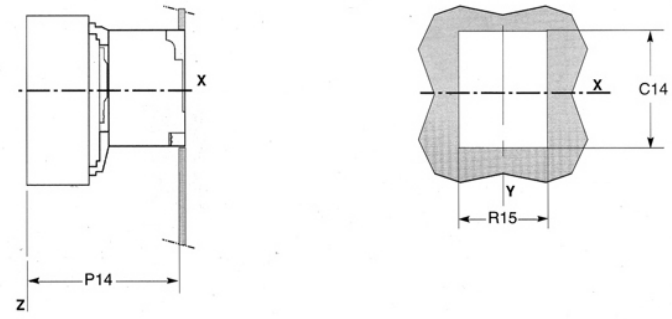
1

Mounting and outline of GM2-100～630 motor mechanism module

Dimension



Front panel cutouts



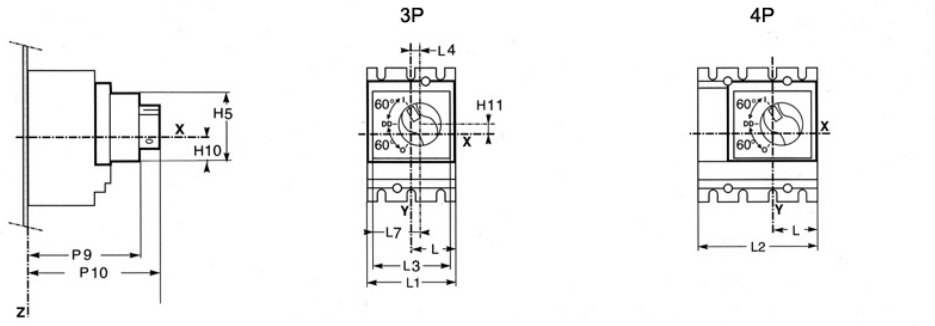
Dimension(mm)

Model	P13	P14	H12	L1	L8	C14	R15
GM2-100/160/250N/H	98	175	115	105	120	117	110
GM2-400/630N/H	129	243	175	140	130	180	145

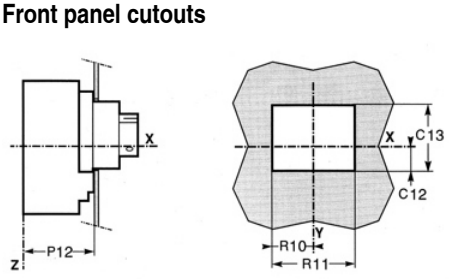
1

Mounting and outline of GM2-100～630 standard rotary handle

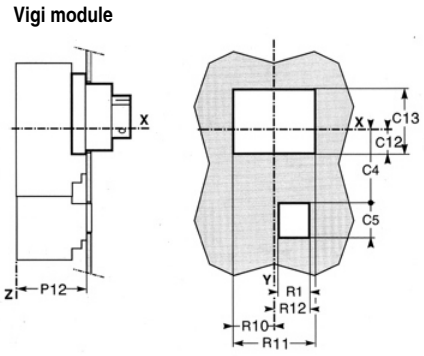
Standard direct rotary handle

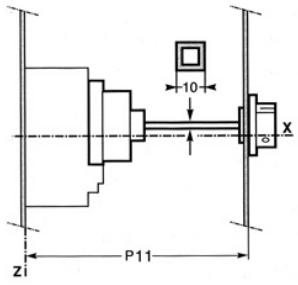


Front panel cutouts

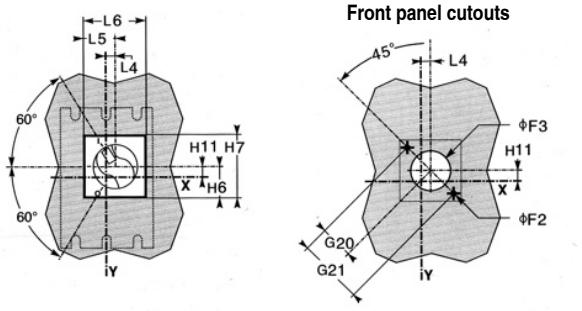


Vigi module





Front panel cutouts



Dimension(mm)

Model	C4	C5	C12	C13	C20	C21	H5	H6	H7	H10	H11
GM2-100/160/250N/H	86	37	29	76	36	72	73	37.5	75	9	28
GM2-400/630N/H	147.5	37	41.5	126	36	72	123	37.5	75	24.5	40

Model	L	L1	L2	L3	L4	L5	L6	L7	P9	P10	P11(1)
GM2-100/160/250N/H	52.5	105	140	91	9.25	37.5	75	55	124	160	185
GM2-400/630N/H	70	140	185	123	5	37.5	75	66.5	145	182	209

Model	P12	R1	R10	R11	R12	ØF2	ØF3
GM2-100/160/250N/H	86	29	48.5	97	14.5	4.5	55
GM2-400/630N/H	147.5	63	64.5	129	32	4.5	55

(1) GM2-100/160/250N/H≤585mm GM2-400/630N/H≤610mm

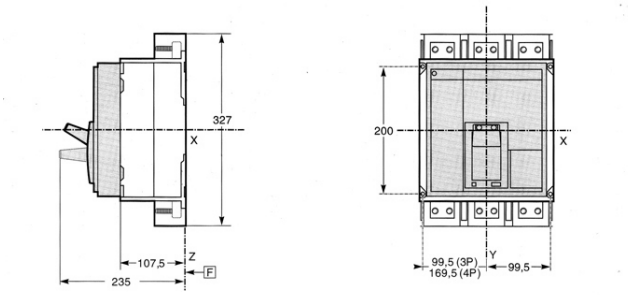
Note: Door cutout dimension are given for a device position in the enclosure where △≥100+(hx5)

1

Mounting and outline of GM2-800～1600 fixed type

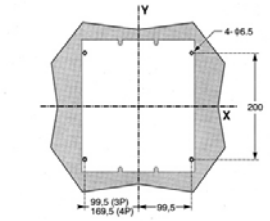
Manul control

Front connection

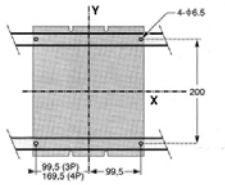


Front of board connection

on back board



on rail



Front panel cutouts