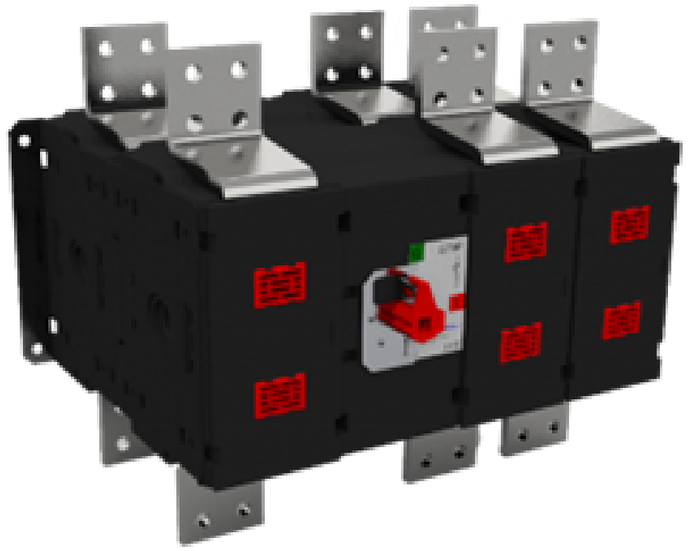
Vector Energy

SWITCH DISCONNECTORS

GT 4000 A



_GENERALITIES
The switch disconnector GT-GLOBE TECHNICS with and without fuses are suitable for making and breaking on load and disconnecting low voltage electrical circuits.

_USE
GT switches commonly used for the following purposes:
- main switch
- switch for motors
- switch disconnector
- safety switch

The version type GT-FP with fuses it carry out the protection functions against the short circuits and overload system and machines

_GENERAL CHARACTERISTICS
Rated insulation voltage 1500V AC and 1500V DC
2-3-4 Poles available
Each phase, pole phase and the operating mechanism can be mounted in any position
Terminals with front or rear connections or with both combination
High breaking capacity (AC22, AC23, IEC 60947-3)
High electrical and mechanical endurance
Double break contacts (with fuse)
Totally insulated when opened switch
Suitable for din-bs fuses
Self cleaning contacts
Contact position positively indicated by the handle
Visibility of fixing and moving contacts by means of windows
Side and frontal indipendent manual operation
Solid neutral version available
Full neutral current
Suitable protection to prevent accidental touching of the live parts
Casing in self-extinguishing (vo-ul94), low hygroscopic and high mechanical
Resistance isolating material
Resistant to damp heat
External double insulated handle with door interlock in ON position, IP65 degree of protection, padlockable with three padlocks in off position
Direct handle padlockable in off position
Adjustable shaft
Max 4NO+4NC auxiliary signaling contacts and max 2NO+2NC pre-break auxiliary contacts
Wide range of accessories

_NORMAL SERVICE, MOUNTING AND TRANSPORT CONDITIONS
Storage and transport ambient temperature - 25°c + 55°c
Working ambient temperature - 20°c + 40°c
In case of higher ambient temperature (t_a) consider the following derating formula:

$I_{the} = k\, i_{th}$ where $\quad k = 1 - \frac{t_a - 40}{100}$

Relative humidity max 95%
Rated frequency 50 - 60 hz
Altitude max 2000 m a.s.l.
Pollution degree 3 according IEC 60947-1
Mounting in enclosure: in case of utilisation at full load and without adequate ventilation, ensure a volume of about 5 times the volume of the switch
Duty (IEC 60947-1): 8 hours; uninterrupted; intermittent 60% class 30; temporary; periodic.

For different operating conditions, please contact the manufacturer.

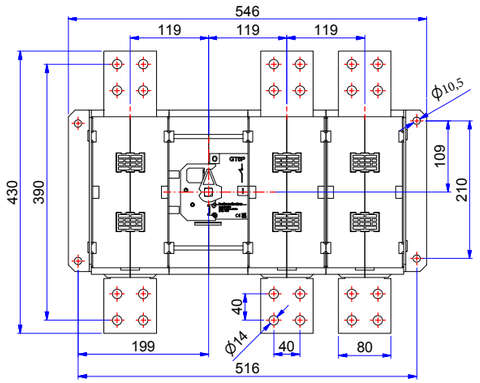
_CONFORMITY TO STANDARDS
IEC 60947-1 | IEC 60947-3 | UNI EN 60947-1 | UNI EN 60947-3 | EAC

_CERTIFICATES AND APPROVALS
IENGF

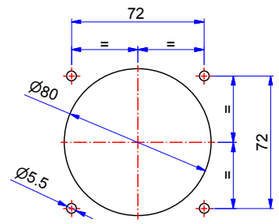
Configurazione standard _Standard configuration

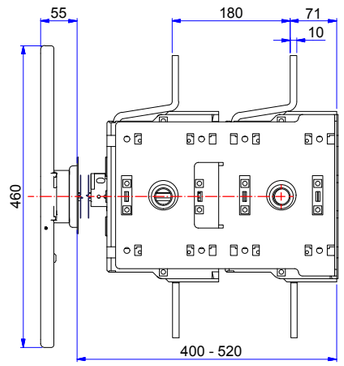
Caratteristiche tecniche _Technincal Features	Tipo _Type		GT6 PN
Corrente nominale _Rated current	In	A	4000
Tensione nominale d'isolamento _Rated insulation voltage	Ui	V	1500
Corrente nominale termica _Thermal current	Ith	A	4000
Corrente nominale d' impiego _Rated operational current			
AC-21A	420V	A	4000
	500V	A	4000
	690V	A	-
AC-22A	420V	A	-
	500V	A	-
	690V	A	-
AC-23A	420V	A	-
	500V	A	-
	690V	A	-
Corrente di breve durata _Short-circuit withstand current	1 sec	kA	50
Potere di chiusura in corto circuito _Short-circuit making capacity	400V	kA	105
Corrente di corto circuito condizionata da fusibile _Rated fuse short-circuit current			
Tipo fusibile _Backup fuse		A	-
Valore efficace _R.M.S. value		kA	-
Valore di picco _Peak value		kA	-
Durata meccanica _Mechanical endurance		n.	2500
Durata elettrica _Electrical endurance		n.	500
Potenza dissipata per polo _Power losses for pole		W	272
Potenza condensatori _rated capacitor power	400V	kVAR	1600
Peso netto _Net weight	3P	Kg	80
	4P		100

GT6PN 4000 A 3P

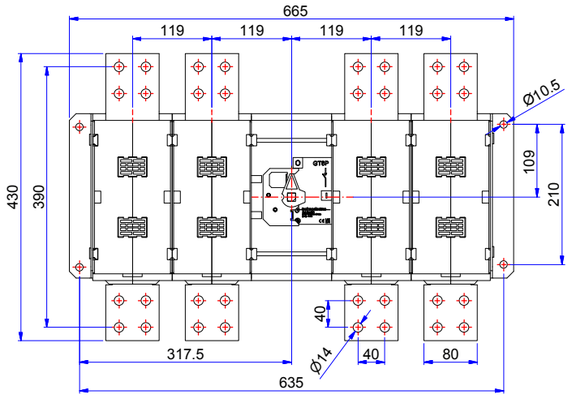


Foratura portella _Door drilling

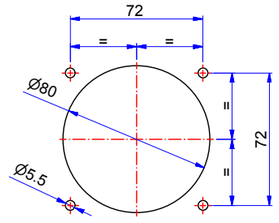


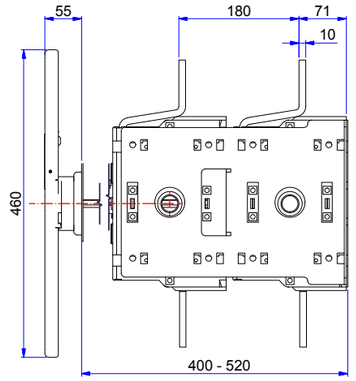


GT6PN 4000 A 4P



Foratura portella _Door drilling





MANUAL CHANGE-OVER SWITCHES

CMA serie GT 4000A

COMMUTATORE GT

GT CHANGE-OVER SWITCHES

_GENERALITIES

Change-over switches manually operated suitable for breaking and permutating two low voltage electrical circuits. They are made by two standard switches of GT series mechanically interlocked.

_GENERAL CHARACTERISTICS

3 Positions I-0-II
Visibility of fixed and moving contacts by means of windows
Indipendent fast action operation
Double break contacts
High electrical and mechanical endurance
Resistant to damp heat
Rotary front operation by means of:
External double insulated handle with door-interlock in I and II position

_NORMAL SERVICE, MOUNTING AND TRANSPORT CONDITIONS

storage and transport ambient temperature - 25°C + 55°C
working ambient temperature - 20°C + 40°C
in case of higher ambient temperature (t_a) consider the following derating formula:

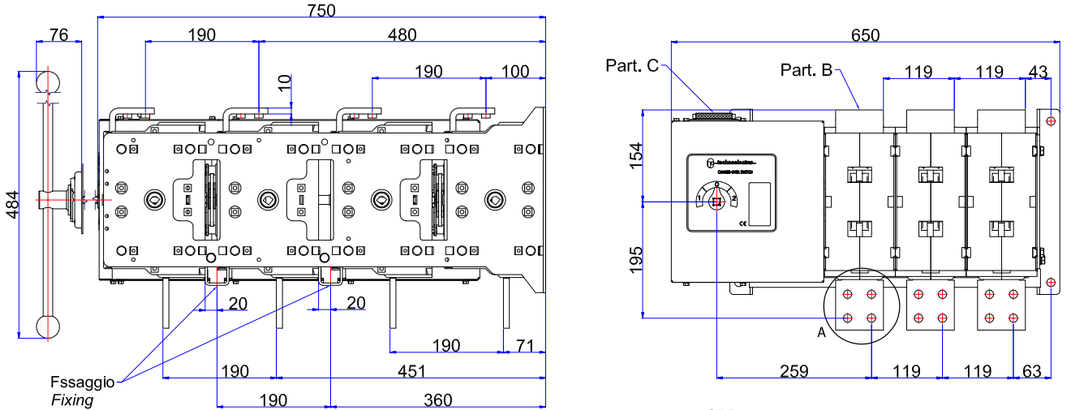
$I_{The} = k\, I_{Th}$ dove $\qquad K = 1 - \frac{t_a - 40}{100}$

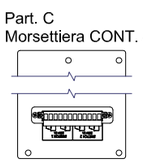
relative humidity max 95%
rated frequency 50 - 60 Hz
altitude max 2000 m a.s.l.
pollution degree 3 according IEC 60947-1
duty (IEC 60947-1):
eight-hour duty
uninterrupted duty
intermittent duty 60% class 30
temporary duty
periodic duty

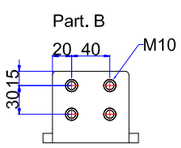
For other operating conditions please contact the manufacturer.

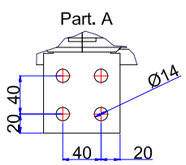
Caratteristiche tecniche _Technincal Features	Tipo _Type		GT 4000
Corrente nominale _Rated current	In	A	4000A
Tensione nominale d'isolamento _Rated insulation voltage	Ui	V	1500
Corrente nominale termica _Thermal current	Ith	A	4000
Corrente nominale d' impiego _Rated operational current			
AC-21A	420V	A	4000
	500V	A	4000
	690V	A	-
AC-22A	420V	A	-
	500V	A	-
	690V	A	-
AC-23A	420V	A	-
	500V	A	-
	690V	A	-
Corrente di breve durata _Short-circuit withstand current	1 sec	kA	50
Potere di chiusura in corto circuito _Short-circuit making capacity		kA	105
Corrente di corto circuito condizionata da fusibile _Rated fuse short-circuit current			
Tipo fusibile _Backup fuse		A	-
Valore efficace _R.M.S. value		kA	-
Valore di picco _Peak value		kA	-
Durata meccanica _Mechanical endurance		n.	2500
Durata elettrica _Electrical endurance		n.	500
Potenza dissipata per polo _Power dissipation per pole		W	272
Potenza condensatori a 400V _Rated capacitor power at 400V	400 V	kVAR	1600
Peso netto _Net weight	3P	Kg	180
	4P		220

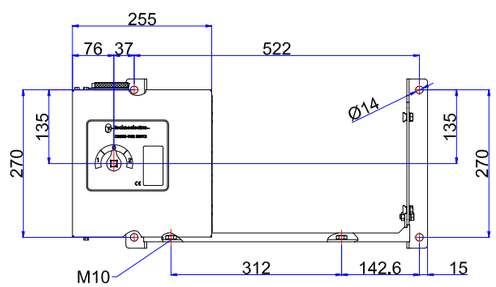
GT 4000A 3P



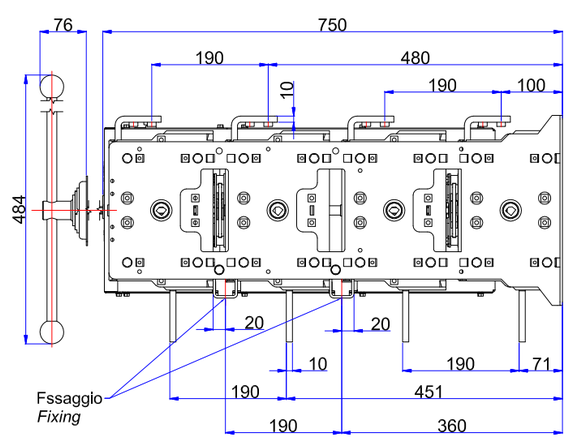


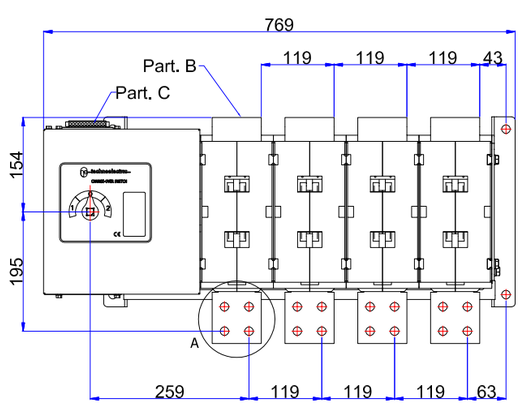


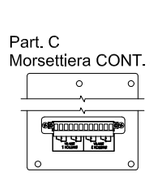


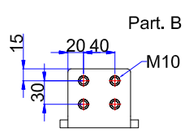


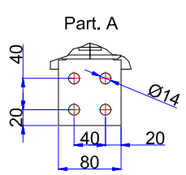
GT 4000A 4P

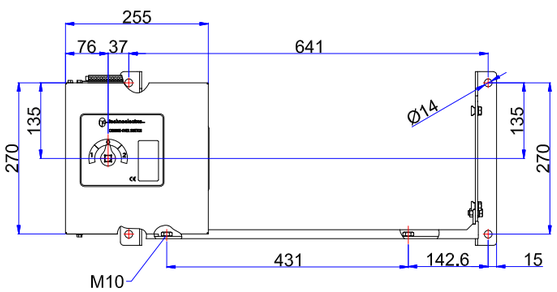












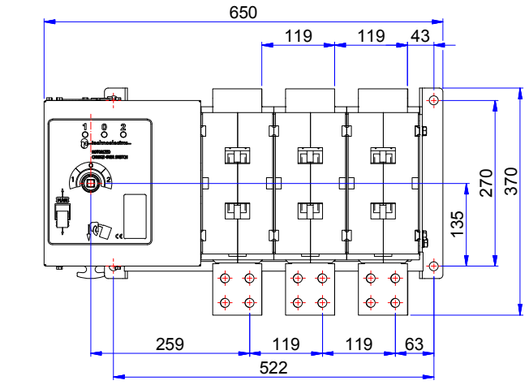
MOTORIZED CHANGE-OVER SWITCHES

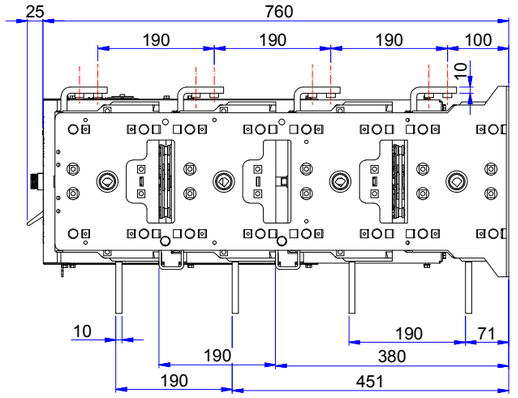
CMO serie GT 4000A

Caratteristiche tecniche _Technincal Features	Tipo _Type		GT
Corrente nominale _Rated current	In	A	4000
Tensione nominale d'isolamento _Rated insulation voltage	Ui	V	1500
Corrente nominale termica _Thermal current	Ith	A	4000
Corrente nominale d' impiego _Rated operational current			
AC-21A/B	400V	A	4000
	500V	A	4000
	690V	A	-
AC-22A/B	400V	A	-
	500V	A	-
	690V	A	-
AC-23A/B	400V	A	-
	500V	A	-
	690V	A	-
DC-21A/B*	220V	A	-
	420V	A	-
	560V	A	-
DC-22A/B*	220V	A	-
	420V	A	-
	560V	A	-
DC-23A/B*	220V	A	-
	420V	A	-
	560V	A	-
Potere di chiusura _Rated making capacity	400V AC23	A	-
Potere di interruzione _Breaking capacity	400V AC23	A	-
Corrente di breve durata _Short-circuit withstand current	1 sec	kA	50
Corrente di breve durata _Short-circuit withstand current	0,25 sec	kA	
Potere di chiusura in corto circuito _Short-circuit making capacity	400V	kA	100
Potenza nominale d'impiego _Rated operational power	400V AC23	kW	-
Corrente di corto circuito condizionata da fusibile _Rated fuse short-circuit current			
Tipo fusibile _Backup fuse		A	-
Valore efficace _R.M.S. value		kA	-
Valore di picco _Peak value		kA	-
Durata meccanica _Mechanical endurance		n.	2500
Durata elettrica _Electrical endurance		n.	500
Potenza dissipata per polo ** _Power losses for pole		W	272
Dimensione cavo _Cable section		mm^2	-
Dimensione barre _Bars dimension		mm	-
Tempi di commutazione _ Change over time	[I-II o II-I]	sec	22
Tensione di alimentazione c.c. _DC voltage supply	± 10%		24
	min		18
Tensione di alimentazione c.a. _AC voltage supply	± 10%		230
Consumo comando elettrico _Power motor consumption	A		3,8
Peso netto _Net weight	3P	Kg	196
	4P		230

*Due poli in serie _Two poles in series **Escluso fusibile _Fuse excluded

GT 4000 A 3P





GT 4000 A 4P