



**CONTACTORS
OVERLOAD RELAYS
& ACCESSORIES**



**ALSTOM
INDUSTRIAL PRODUCTS**

MINI AC CONTACTORS

Features:

- 3 pole mini contactors form AC3 2.2kW/6A to 7.5kW/16A
- Complies with IEC/EN 60947, BS5424, AS/NZS 3947.4.1 standards
- 1NO or 1NC auxiliary contacts as a standard
- Top / side mountable accessories
- Finger-proof design
- Dimensions H x W x D = 58 x 45 x 57mm



| TYPE | | GMC-6M-(1)# | GMC-9M-(1)# | GMC-12M-(1)# | GMC-16M-(1)# |
|-----------------|------------|--------------|-------------|--------------|--------------|
| Ratings | AC1 | 20A | 20A | 20A | 20A |
| AS/NZS 3947.4.1 | AC3 | 2.2kW | 4kW | 5.5kW | 7.5kW |
| 380~440V | | 6A | 9A | 12A | 16A |

(1) Insert auxiliary code 10 for 1NO or 01 for 1NC

STANDARD AC COIL VOLTAGE CODES

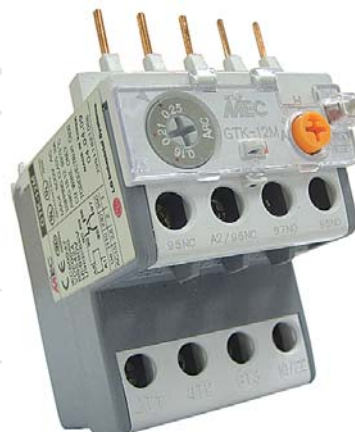
| # | B | F * | U | N * |
|---|-----|------|------|------|
| | 24V | 110V | 240V | 415V |

* Indent item

MINI SERIES THERMAL OVERLOAD RELAYS

Features:

- Temperature compensated
- Single phase protection
- Electrically separate NO and NC contacts
- Hand/Auto reset



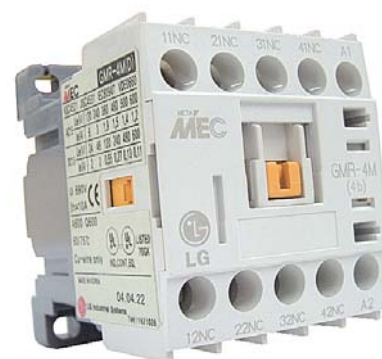
TYPE : GTK-12M - *

| RANGE A | * SUFFIX | RANGE A | * SUFFIX | RANGE A | * SUFFIX |
|-------------|----------|-----------|----------|---------|----------|
| 0.1 - 0.16 | 0.16 | 1 - 1.6 | 1.6 | 6 - 9 | 9 |
| 0.16 - 0.25 | 0.25 | 1.6 - 2.5 | 2.5 | 7 - 10 | 10 |
| 0.25 - 0.4 | 0.4 | 2.5 - 4 | 4 | 9 - 13 | 13 |
| 0.4 - 0.63 | 0.63 | 4 - 6 | 6 | 12 - 16 | 16 |
| 0.63 - 1 | 1 | 5 - 8 | 8 | | |

MINI CONTACTOR RELAYS - AC OPERATED

Features:

- 4-, 6-, 8-pole mini contactor relays
- Finger-proof design
- DIN rail or screw mountable
- 16A continuous current, lth
- DC control voltage on application
- Dimensions H x W x D = 58 x 45 x 57mm



| TYPE | | GMR-4M-40U | GMR-4M-22U | GMR-4M-04U |
|-------------------------|-----|------------|------------|------------|
| Ratings | lth | 16A | 16A | 16A |
| Contact Arrangement (1) | NO | 4 | 2 | 0 |
| | NC | 0 | 2 | 4 |

(1) Order AU-2M20 or AU-4M40 add-on blocks for 6 & 8 pole

U = 240V AC coil voltage (Other voltages available on request)

AUXILIARY CONTACTS

| Part No. | Contacts | | Mounting Position | For Contactor |
|----------|----------|----|-------------------|-------------------|
| | NO | NC | | |
| AU-1M01 | 0 | 1 | Side | GMC-6M to GMC-16M |
| AU-1M10 | 1 | 0 | | |
| AU-2M11 | 1 | 1 | Top | GMC-6M to GMC-16M |
| AU-2M20 | 2 | 0 | | |
| AU-4M22 | 2 | 2 | | |
| AU-4M40 | 4 | 0 | | |

For other auxiliary contact combinations, please consult ALSTOM



MECHANICAL INTERLOCK

| Part No. | For Contactor |
|----------|-------------------|
| AR-12M | GMC-6M to GMC-16M |

OVERLOAD RELAY SEPARATE MOUNTING UNIT

| Type | For Overload |
|--------|--------------|
| AZ-12H | GTK-12M |



STANDARD AC CONTACTORS

Features:

- 3 pole contactors up to AC3 440kW/800A
- Add on accessories
- Complies with IEC/EN 60947, BS5424, AS/NZS 3947.4.1 standards
- 1NO + 1NC aux contacts as a standard up to 11kW
- 2NO + 2NC aux contacts as a standard above 11kW



| Cat. No. | | 324057 | 324060 | 324099 | 324061 |
|-----------------|------------|------------|--------------|--------------|-------------|
| TYPE | | GMC-9-11U | GMC-12-11U | GMC-18-11U | GMC-22-11U |
| Ratings | AC1 | 25A | 25A | 40A | 40A |
| AS/NZS 3947.4.1 | AC3 | 4kW | 5.5kW | 7.5kW | 11kW |
| 380~440V | | 9A | 12A | 18A | 22A |

Note: For different Coil voltages replace letter 'U' by B, F or N.

STANDARD AC COIL VOLTAGE CODES

| B | F | U | N |
|-----|------|------|------|
| 24V | 110V | 240V | 415V |

Thermal Overload Relays

Features:

- Temperature compensated
- Single phase protection
- Electrically separate NO and NC contacts
- Hand/Auto reset

| Cat. No. | Part No. | Rating : Amps | To Suit Contactors |
|----------|----------------------|------------------|-----------------------|
| 324070 | GTK-22/3-0.16 | 0.16 - 0.25 | |
| 324071 | GTK-22/3-0.25 | 0.25 - 0.4 | |
| 324072 | GTK-22/3-0.4 | 0.4 - 0.63 | |
| 324073 | GTK-22/3-0.63 | 0.63 - 1 | GMC - 9 |
| 324074 | GTK-22/3-1 | 1 - 1.6 | to |
| 324075 | GTK-22/3-1.6 | 1.6 - 2.5 | GMC - 22 |
| 324076 | GTK-22/3-2.5 | 2.5 - 4 | |
| 324077 | GTK-22/3-4 | 4 - 6 | |
| 324078 | GTK-22/3-6 | 6 - 9 | |
| 324079 | GTK-22/3-9 | 9 - 13 | |
| 324080 | GTK-22/3-12 | 12 - 18 | |
| 324081 | GTK-22/3-16 | 16 - 22 | |



Electronic overload relays

- Reduces inventory requirements, only 2 units with adjustable current range from 1A to 22A
- Adjustable trip time (trip class 5 - 10 - 15 - 20 - 30)
- Direct mounting on contactor
- Includes trip contacts - 1NO + NC
- Visible trip indication LED
- Auxiliary voltage supply 100 - 260 Volt AC

Protection Features:

- Over current protection
- Loss of Phase
- Locked Rotor
- Phase Unbalance



| Type GMP | Current setting range (A) | To suit contactor |
|--------------------|------------------------------|-------------------|
| GMP22-3P-5 | 1A to 5A | GMC-9 to GMC -22 |
| GMP22-3P-22 | 4.4A to 22A | GMC-9 to GMC -22 |



| Cat. No. | | 324062 | 324063 | 324064 | 324065 | | |
|-----------------|------------|-------------|---------------|-------------|-------------|-------------|-------------|
| TYPE | | GMC-32-22U | GMC-40-22U | GMC-50-22U | GMC-65-22U | GMC-75-22U | GMC-85-22U |
| Ratings | AC1 | 50A | 60A | 80A | 100A | 110A | 135A |
| AS/NZS 3947.4.1 | AC3 | 15KW | 18.5KW | 22KW | 30KW | 37KW | 45KW |
| 380~440V | | 32A | 40A | 50A | 65A | 75A | 85A |

Note: For different Coil voltages replace letter 'U' by B, F or N.

STANDARD AC COIL VOLTAGE CODES

| B | F | U | N |
|-----|------|------|------|
| 24V | 110V | 240V | 415V |

Thermal overload relays

| Cat. No. | Part No. | Rating : Amps | To Suit Contactors |
|----------|--------------------|------------------|-----------------------|
| 324082 | GTK-40/3-16 | 16 - 22 | |
| 324083 | GTK-40/3-18 | 18 - 26 | GMC - 32 |
| 324084 | GTK-40/3-24 | 24 - 36 | GMC - 40 |
| 324085 | GTK-40/3-28 | 28 - 40 | |
| 324086 | GTK-85/3-34 | 34 - 50 | GMC - 50 to |
| 324087 | GTK-85/3-45 | 45 - 65 | GMC - 85 |



Electronic overload relays

- Reduces inventory requirements, only 2 units with adjustable current range from 4A to 40A
- Adjustable trip time (trip class 5 - 10 - 15 - 20 - 30)
- Direct mounting on contactor
- Includes trip contacts - 1NO + NC
- Visible trip indication LED
- Auxiliary voltage supply 100 - 260 Volt AC

Protection Features:

- Over current protection
- Loss of Phase
- Locked Rotor
- Phase Unbalance



| Type GMP | Current setting range (A) | To suit contactor |
|--------------------|------------------------------|-------------------|
| GMP40-3P-20 | 4A to 20A | GMC-32 to GMC -40 |
| GMP40-3P-40 | 8A to 40A | GMC-32 to GMC -40 |

CONTACTOR RELAY - AC OPERATED

Features:

- 4-, 6-, 8-pole contactor relays
- 44mm wide construction
- Finger-proof design
- DIN rail or screw mountable
- 16A continuous current, lth
- DC control voltage on application
- Dimensions H x W x D = 80 x 44 x 86.8mm



| TYPE | | GMR-4-40# | GMR-4-22# | GMR-4-04# |
|-------------------------|-----|-----------|-----------|-----------|
| Ratings | lth | 16A | 16A | 16A |
| Contact Arrangement (1) | NO | 4 | 2 | 0 |
| | NC | 0 | 2 | 4 |

(1) Order AU-220 or AU-440 add-on blocks for 6 or 8 pole

Add suffix for coil voltages: **B** - 24V AC, **U** - 240V AC

LG - META MEC SERIES

Accessories & Spares

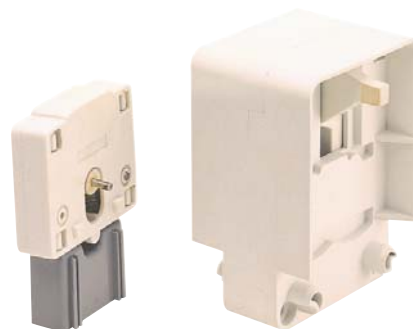
Auxiliary Contacts

| Cat. No. | Part Number | Contacts | | Mounting Position | For Contactor |
|----------|-------------|----------|----|-------------------|---------------------------------------|
| | | NO | NC | | |
| 324066 | AU-1 | 1 | 1 | Side | GMC-9 to GMC-85 GMC-100 to GMC-800 |
| | AU-100 | 1 | 1 | | |
| 324067 | AU-220 | 2 | 0 | Top | GMC-9 to GMC-85 |
| | AU-211 | 1 | 1 | | |
| 324068 | AU-202 | 0 | 2 | Top | GMC-9 to GMC-85 |
| | AU-440 | 4 | 0 | | |
| | AU-431 | 3 | 1 | | |
| | AU-422 | 2 | 2 | | |
| | AU-413 | 1 | 3 | | |
| | AU-404 | 0 | 4 | | |



MECHANICAL INTERLOCKS

| Cat. No. | Part Number | For Contactor |
|----------|---------------|--------------------|
| 324069 | AR-9 | GMC-9 to GMC-85 |
| | AR-100 | GMC-100 to GMC-150 |
| | AR-190 | GMC-180 to GMC-400 |



PNEUMATIC TIMER

| Type | Delay | Time | Auxiliary | Applied Contactors |
|--------------|-------|---------|-----------|--------------------|
| AT-1N | ON | 0.1-30s | 1NO 1NC | GMC-9 ~ 85 |
| AT-2N | | 10-180s | | |
| AT-1F | OFF | 0.1-30s | | |
| AT-2F | | 10-180s | | |



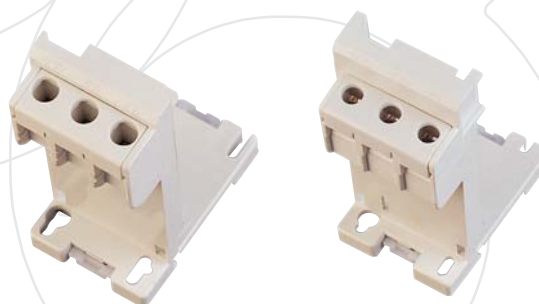
MECHANICAL LATCH

| Type | For Contactor |
|--------------|---------------|
| AL-9 | GMC-9 to 40 |
| AL-50 | GMC-50 to 85 |



OVERLOAD RELAY SEPARATE MOUNTING UNIT

| Cat. No. | Type | To suit Thermal Overload Relays |
|----------|---------------|---------------------------------|
| 324088 | AZ-22H | GTK-22 |
| 324089 | AZ-40H | GTK-40 |
| | AZ-85H | GTK-85 |



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