



### Description

SERIES: RI 8TU 30

- \* Robust plastic case with screw terminal
- \* large, isolated base plate
- \* Blocking Voltage to 1800V
- \* High surge currents
- \* Easy Chassis mounting

### Typical Applications

- \* Single & Three Phase rectifiers for power supplies
- \* Input rectifiers for variable frequency drives
- \* Rectifier for DC motor field supplies
- \* Battery charger rectifiers

Symbol	Conditions	RI 8TU 30
$I_D$		40A
$T_{CASE}$		90°C
$I_{FSM}$	$T_{vj} = 25^\circ\text{C}, 10\text{ms}$	370A
$I^2t$	$T_{vj} = 25^\circ\text{C}, 8,3...10\text{ms}$	685A <sup>2</sup> s
$V_F$	$T_{vj} = 25^\circ\text{C}, I_F = 80\text{A}$	1.30V
$V_{(TO)}$	$T_{vj} = 125^\circ\text{C}$	0.85V
$r_t$	$T_{vj} = 125^\circ\text{C}$	12mΩ
$I_{RD}$	$T_{vj} = 25/125^\circ\text{C}; V_{RD} = V_{RRM}$	0.5/2mA
$R_{thjs}$	Per Module	0.43° C/W
$R_{thch}$	total	0.05 °C/W
$T_{vj}$		-40... +125° C
$T_{stg}$		-40... +125° C
$V_{isol}$	A.C. 50...60Hz; r.m.s. ; 1min	2500V
$M_1$	case to heat sink	5 Nm ± 15 %
$M_2$	Bus bar to terminals	5 Nm ± 15 %
$w$		165g.

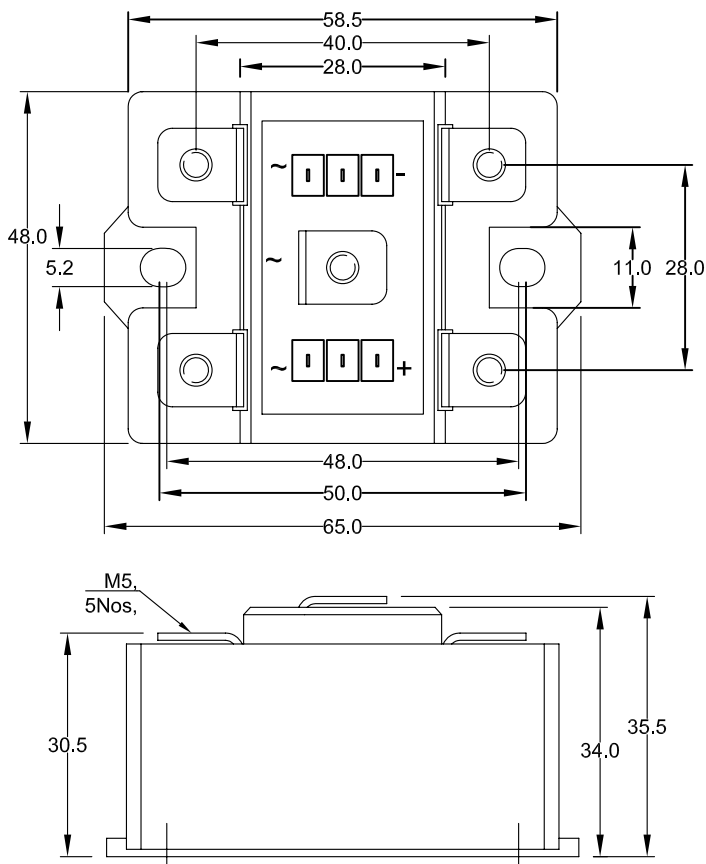
# THREE PHASE DIODE MODULES

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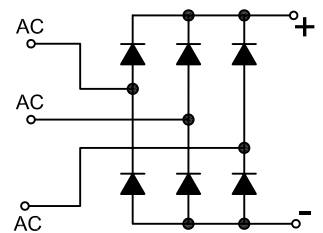
### VOLTAGE & APPLICATION DATA

TYPE NUMBER			04	06	08	10	12	14	16	18
$V_{RRM}$	Maximum repetitive peak reverse voltage	V	400	600	800	1000	1200	1400	1600	1800
$V_{RSM}$	Maximum non-repetitive peak reverse voltage	V	500	700	900	1100	1300	1500	1700	1900
$V_{RMS}$	Recommended AC supply voltage	V	160	240	320	400	480	560	640	720
$I_{RM}$	Maximum peak reverse current per diode $T_J = T_{J \text{ max}}$	mA	2	2	2	2	2	2	2	2

### RI 8TU



### SERIES RI 8TU CIRCUITS



THREE PHASE DIODE MODULES

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**ORDER INFORMATION TABLE**

