

HF8565

MOTOR START POTENTIAL RELAY



File No.:SA13318



Features

- 50A switching capability
- 1 Form B configuration available
- 250" quick connect termination
- Various of mounting positions
- Class B insulation available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (51.2 x 46.6 x 36.5) mm

CONTACT DATA

Contact arrangement	1B
Contact resistance	100mΩ (at 1A 24VDC)
Contact material	AgCdO
Contact rating (Res. load)	16A(make and break) 400VAC COS Ø=0.85 35A(break only) 400VAC COS Ø=0.85 50A(break only) 400VAC COS Ø=0.85
Mechanical endurance	7.5 x 10 ⁵ OPS
Electrical endurance	5 x 10 ⁵ OPS (16A 400VAC) 2 x 10 ⁵ OPS (35A 400VAC break only) 1 x 10 ⁵ OPS (50A 400VAC break only)

CHARACTERISTICS

Weight	Approx. 110g
Termination	QC
Construction	Dust protected

Notes: The data shown above are initial values.

COIL

Coil power	5VA
Coil voltage	See table below
Coil resistance	See table below
Insulation system	Class B

OPERATING CHARACTERISTICS at 50Hz

Coil number	2	3	4	5	6	7	8	9
Vmax at 40°C (V)	299	338	378	356	452	151	530	228
Resistance (1±10%) Ω 25°C	5600	7500	10700	10000	13800	1500	19500	3900
	H.P.U.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.
A	120-130						111-124	20-45
B	130-140						120-134	20-45
C	150-160	140-153	40-90				130-144	20-45
D	160-170	150-163	40-90	150-163	40-90		140-153	20-45
E	170-180	162-175	40-90	162-175	40-90			149-163
F	180-190	171-184	40-90	171-184	40-90	180-195	40-105	157-172
G	190-200	180-193	40-90	180-195	40-105	180-195	40-105	168-182
H	200-220	186-215	40-90	190-215	40-105	195-224	50-110	178-192
I	220-240	205-234	40-105	208-239	50-110	204-233	50-110	183-213
L	240-260	224-252	40-105	224-252	50-110	223-259	50-110	203-231
M	260-280	243-271	40-105	239-270	50-110	242-272	50-110	239-268
N	280-300			260-289	50-110	262-290	60-121	258-287
O	300-320				280-310	60-121	280-310	60-133
P	320-340				300-328	60-121	300-328	60-154
Q	340-360				318-347	60-121	314-342	60-135
R	350-370							323-352
S	360-380							332-361

Notes: H.P.U.means Approximate pick-up at 90°C , P.U. means pick-up value at 25°C, D.O.means drop out value at 25°C.



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

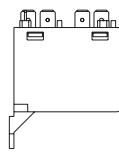
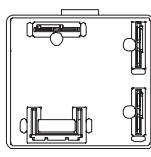
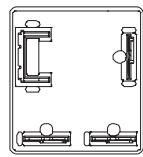
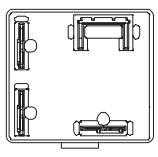
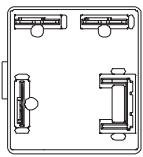
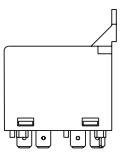
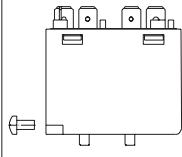
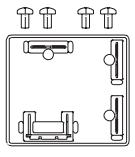
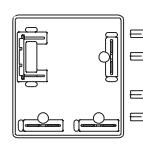
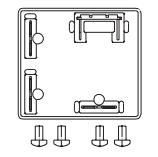
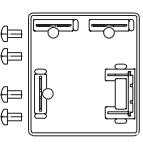
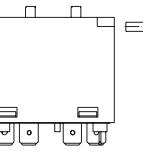
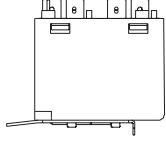
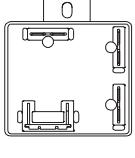
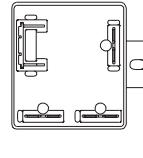
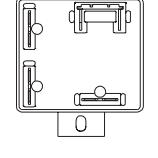
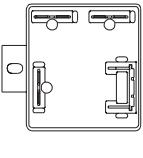
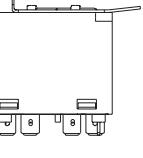
2007 Rev. 2.00

OPERATING CHARACTERISTICS at 60Hz

Coil number	2		3		4		5		6		7		8		9		
Vmax at 40°C (V)	332		375		420		395		502		168		588		253		
Resistance (Ω ±10%) 25°C	5600		7500		10700		10000		13800		1500		19500		3900		
	H.P.U.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.	P.U.	D.O.								
AA	120-130									111-124	20-45			111-124	35-77		
AB	130-140									120-134	20-45			120-134	35-77		
AC	150-160									130-144	20-45			130-144	35-77		
AD	160-170	150-163	40-90							140-153	20-45			140-153	35-77		
AE	170-180	162-175	40-90							149-163	20-45			149-163	35-77		
AF	180-190	171-184	40-90					180-195	40-105					157-172	35-77		
AG	190-200	180-193	40-90	180-195	40-105			189-205	40-105					168-182	35-77		
AH	200-220	186-215	40-90	190-215	40-105	195-224	60-121	186-214	60-130					178-192	35-77		
AI	220-240	205-234	40-90	208-239	50-110	204-233	60-121	204-233	60-130					183-213	35-77		
AL	240-260	224-252	40-105	224-252	50-110	223-259	60-121	223-252	60-130					203-231	35-77		
AM	260-280	243-271	40-105	239-270	50-110	242-272	60-121	242-272	60-140	239-268	60-135			221-250	35-77		
AN	280-300			260-289	50-110	262-290	60-121	262-290	60-140	258-287	60-135			258-287	75-170		
AO	300-320					280-310	60-121	280-310	60-140	277-305	60-135			277-305	75-170		
AP	320-340					300-328	60-121	300-328	60-140	295-324	60-135			295-324	75-170		
AQ	340-360					318-347	60-121			314-342	60-135			314-342	75-180		
AR	350-370													323-352	75-180		
AS	360-380													332-361	75-180		

Notes: H.P.U.means Approximate pick-up at 90°C , P.U. means pick-up value at 25°C, D.O.means drop out value at 25°C.

OPERATING POSITION

	1	2	3	4	5	6
PLASTIC TAB MOUNT						
PANEL MOUNT						
METAL TAB MOUNT						

TERMINAL CONFIGURATION

	3 dual QC (#1, 2, 5)
PLASTIC TAB MOUNT	D
PANEL MOUNT	P
METAL TAB MOUNT	Z

ORDERING INFORMATION

HF8565 / D 6 A 1 (XXX)

Type

Terminal configuration D, P, Z (See table for terminal configuration)

Coil number 2, 3, 4, 5, 6, 7, 8, 9

Operation characteristics AA~AS (See table for operating characteristics)

Operation position 1, 2, 3, 4, 5, 6

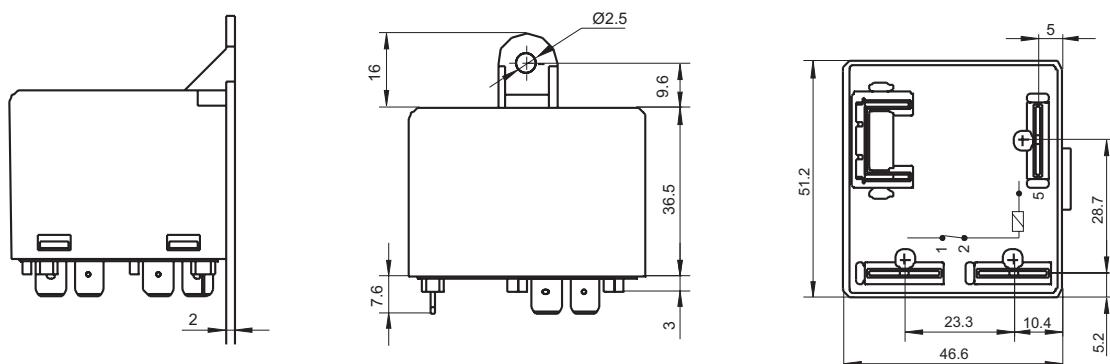
Customer special code¹⁾ Only for special requirements, e.g. (551) stands for RoHS compliant (Cadmium containing contacts)

Notes: 1) HF8565 is an environmental friendly product. Please mark a special code (551) when ordering.

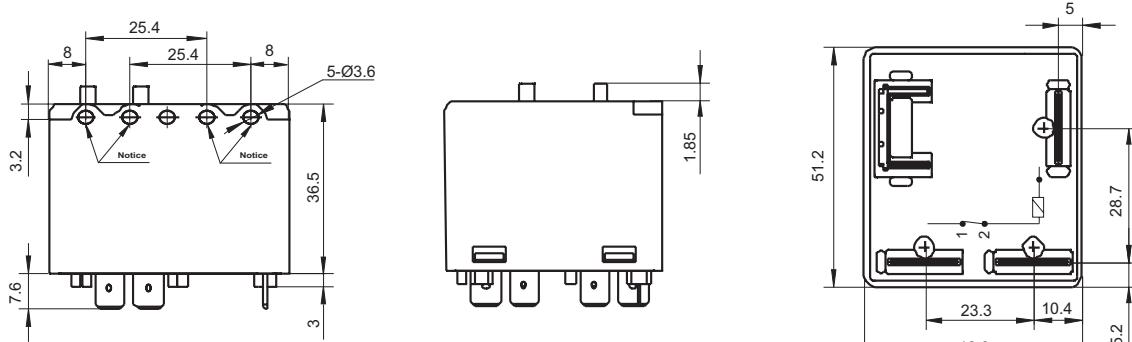
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Plastic Tab Mount



Panel Mount

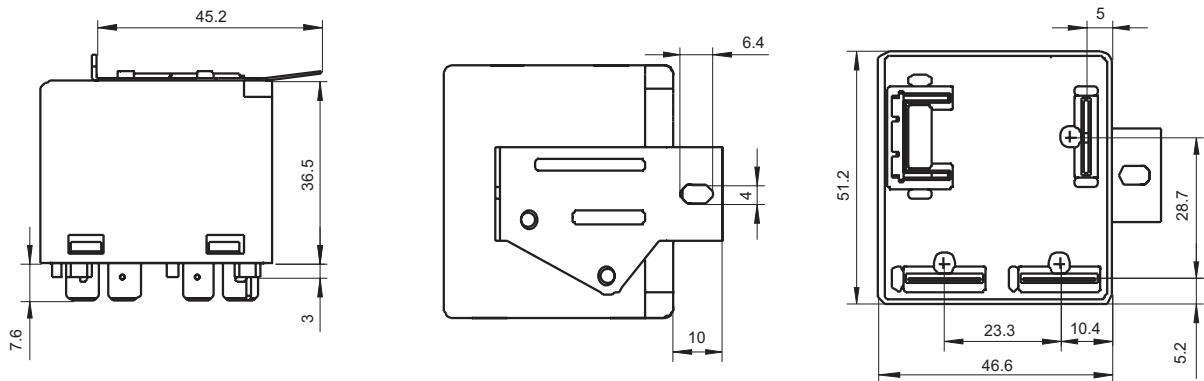


Notice: When engaging the plastic mould recess,use two flat head,self tapping screw,size 4.2mm,9.5mm long.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

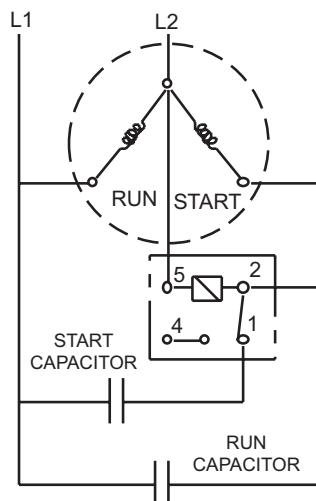
Unit: mm

Metal Tab Mount



Remark: In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.

Wiring Diagram



Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice.

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.