

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)



CPRI

TEST REPORT

Test Report No. : 2012/STL/1192 **Dated :** 19 OCT 2012

Name and Address of the Customer : M/s Samcon Industrial Controls P. Ltd.,
112, Krishna Building, Laxmi Industrial Estate,
Nartak Nagar, Thane (W) – 400 606

Name and Address of the Manufacturer : M/s Samcon Industrial Controls Pvt. Ltd.,
Plot No. 20, 22 & 23, Survey No. 165 A/2 & 3,
Oswal Industrial Estate, NH-3, Village-Asangaon,
Tal. Shahapur, Dist. Thane – 421 601

Particulars of Sample(s) Tested : 415V, 3200A / 630A Drawout MCC / PCC Panel

Condition of sample(s) on receipt : New
Type : Drawout
Designation : NIL
Serial Number(s) : SIC/IP/12
Number of Sample(s) Tested : One
CPRI sample code number(s) : STDSST212S1033

Particulars of test(s) conducted : Degree of protection IP-54 (Category-1)

Date(s) of Test(s) : 19/09/2012 & 20/09/2012
Test(s) in accordance with : IS : 8623(Part.1), 1993 / IEC : Pub-439-1, 1985
Standard/specification
Sampling Plan : NIL
Customer's Requirement : NIL
Deviations, if any : NIL

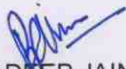
Name of the witnessing persons

Customer's Representatives : Mr. Vishal V. Bahua, Design Engineer
Other than Customer's Representatives : NIL

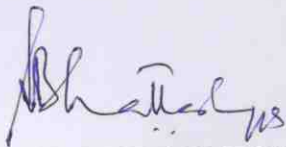
Test subcontracted with name and address of the laboratory : NONE

Documents constituting this report (in words)

No. of Sheet(s) : FIVE
No. of Oscillogram(s) : NIL
No. of Graph(s) : NIL
No. of Photograph(s) : NIL
No. of Test Circuit Diagram(s) : NIL
No. of drawing(s) : FOUR


(PRADEEP JAIN)
TEST ENGINEER




(S. BHATTACHARYYA)
JOINT DIRECTOR

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SUMMARY OF TEST

1. Test conducted : Degree of Protection IP - 54 (Category-1)
2. Rating for which tested : 1) Ingress protection against solid particles IP-5X
2) Ingress protection against liquids IP-X4
3. DOCUMENTS CONSTITUTING THIS REPORT :
 - 3.1 Supplementary test report : NIL
 - 3.2 Oscillogram No(s) : NIL
 - 3.3 Drawing of the equipment tested : List of drawing no. SIC/IP52/12/00 Rev.01
(Total 4 drgs. including list of drawing)
 - 3.4 Test circuit drawing No(s). : NIL
 - 3.5 Photograph No(s). : NIL


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DESCRIPTION OF THE SAMPLE TESTED

(As assigned by the manufacturer)

Sample	:	Drawout MCC / PCC Panel
Rated voltage (Volts)	:	415
Rated current (Amps)	:	3200A / 630A
Frequency (Hz)	:	50
Insulation level (V)	:	660
No. of phases	:	TPN
No. of poles	:	-
Contacts terminal material	:	Copper
Isolating distance (mm)	:	-
Phase to earth distance (mm)	:	-
Creepage distance (mm)	:	-
Tripping current (mm)	:	-
Dimensions of the sample	:	As per drawing
Rated short time current (KArms/ KAp)	:	50 for 1 sec. / 105
Category of enclosure	:	1


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SCHEDULE OF TESTS

1) Test conducted : Degree of Protection IP-5X (Category -1)
Date of test : 19/09/2012 & 20/09/2012
Condition of sample before test : New
Test Details : As per Standard

Differential Pressure maintained	Duration of the test
200mm of water column	8.0 hours

Observations : Small Traces of talcum powder observed inside the sample at the bottom and in all the compartments.
High Voltage Power Frequency Test : 2.5 kVrms for one minute withstood.

2) Test conducted : IP-X4
Date of test : 20/09/2012
Condition of sample before test : As such after IP-5X test.
Test details : The sample was placed in normal position and all parts of the sample wetted during the test by using spray nozzle as per standard.

Water pressure	Delivery rate of water	Duration of the test (minutes)
100kN/m ²	10 ltr./min.	9.0

Observations : Small traces of water observed in front side drawout trolley compartment and moderate quantity of water at the bottom surface of the sample after IP-X4 test.
High Voltage Power Frequency Test : 2.5 kVrms for one minute withstood.

CONCLUSION : The test results indicate that the sample tested complies with the requirements of the relevant clauses of the standard IS : 8623(Part.1), 1993 / IEC : Pub-439-1, 1985.


(PRADEEP JAIN)
TEST ENGINEER