

PRODUCT CHANGE NOTIFICATION 0003

Issue Date: 08/22/2022

Revision: A

Revision Date: 11/29/2022

DESCRIPTION OF CHANGE:

TCI will replace all 3-phase ASC oil filled capacitors to Vishay oil filled capacitors. The change applies to all designs both standard product and in component kit form. The rate at which the capacitors will change over is subject to stock availability of the old TCI capacitor parts. This notification highlights filter component applications. Please reference *Part Numbers Affected* and *Product Identification* below.

PRODUCT CATEGORY:

MFC KIT (55 amps – 960 amps)
HGP KIT (select sizes 25HP and below)
HGL KIT (select sizes 50HP and below)

PART NUMBERS / SERIES / FAMILIES AFFECTED:

Standard parts are listed in this section below. Custom MFC filters above 55 amps or HGP or HGL kit filters may also be affected. For more information on a specific custom part, please contact your TCI representative or marketing@transcoil.com with your specific part number.

Loose Capacitors

New TCI part	Old TCI part	Description
32446	27605	Cap, 3kVAR, 480V, 60Hz, Oil, Spring Clamp
32447	27606	Cap, 5kVAR, 480V, 60Hz, Oil, Spring Clamp
32448	28503	Cap, 6kVAR, 480V, 60Hz, Oil, Spring Clamp
32449	29230	Cap, 8.33kVAR, 480V, 60Hz, Oil, Spring Clamp
32450	27607	Cap, 10kVAR, 480V, 60Hz, Oil, Spring Clamp
32450	28565	Cap, 10kVAR, 480V, 60Hz, Oil, Spring Clamp
32451	27608	Cap, 15kVAR, 480V, 60Hz, Oil, Spring Clamp
32452	27609	Cap, 20kVAR, 480V, 60Hz, Oil, Spring Clamp

HGP Kits

208V, 60Hz	240V, 60Hz	480V, 60Hz
HGP0003DW__	HGP0008BW__	HGP0015AW__
HGP0005DW__	HGP0010BW__	HGP0020AW__
HGP0008DW__		HGP0025AW__

HGL Kits

480V, 60Hz
HGL0020AW__



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HGL0030AW__
HGL0040AW__
HGL0050AW__

MFC Kits

480V, 60Hz	
MFC055A__	MFC362A__
MFC065A__	MFC420A__
MFC080A__	MFC480A__
MFC110A__	MFC540A__
MFC130A__	MFC600A__
MFC160A__	MFC750A__
MFC200A__	MFC850A__
MFC250A__	MFC960A__
MFC305A__	

CLASSIFICATION OF CHANGE:

Replacement with same performance

REASON FOR CHANGE:

Vendor supply chain issues and capacitor terminal block improvement.

EXPECTED INFLUENCE ON QUALITY/REALIABILITY/PERFORMANCE:

The new Vishay oil filled capacitors have a spring clamp terminal block rather than older screw type terminals. The new capacitor bleeder resistors must be inserted into the capacitor upon inspection. Reference DWG 32446 thru 32452 of all new capacitor drawings with instructions. The bleeder resistor instructions will also be put into the new Installation Operation and Maintenance Manuals. There will be no change to quality or performance.

TIME SCHEDULE:

Changes will occur starting on shipments after September 1st, 2022, or subject to stock availability of previous capacitors. All 3-phase oil filled capacitors should be completely switched over to the new parts by December 31st, 2022

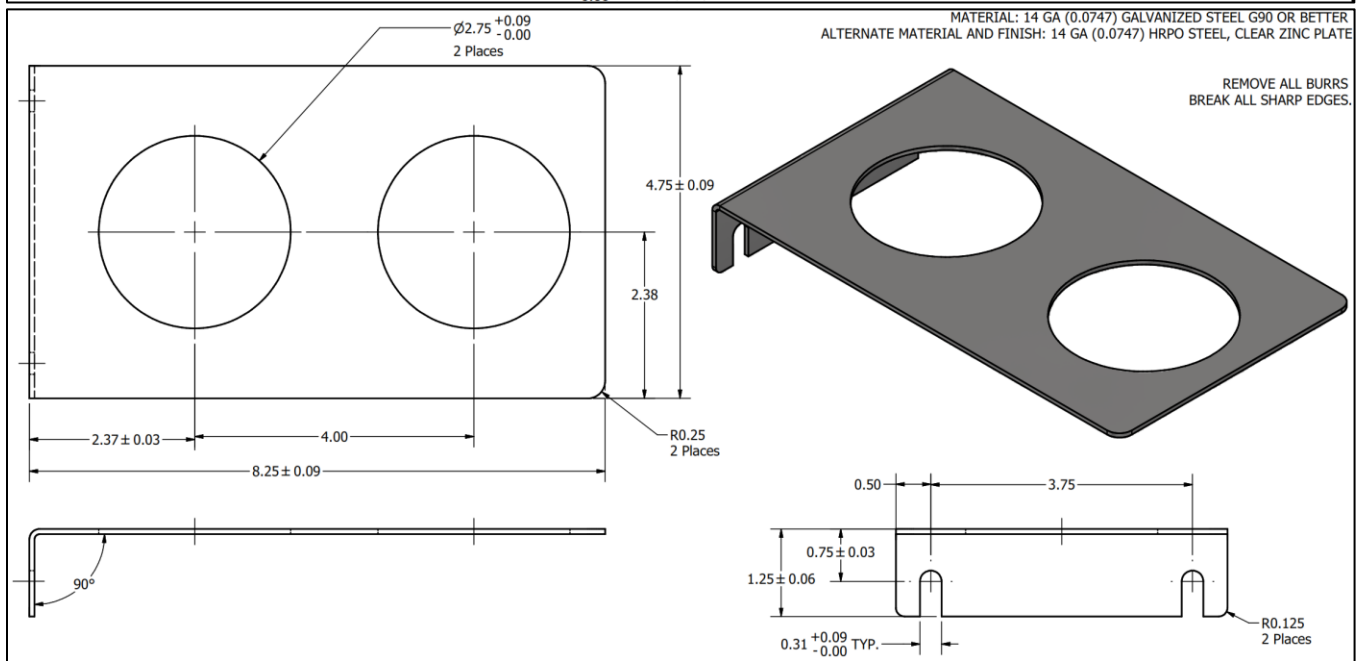
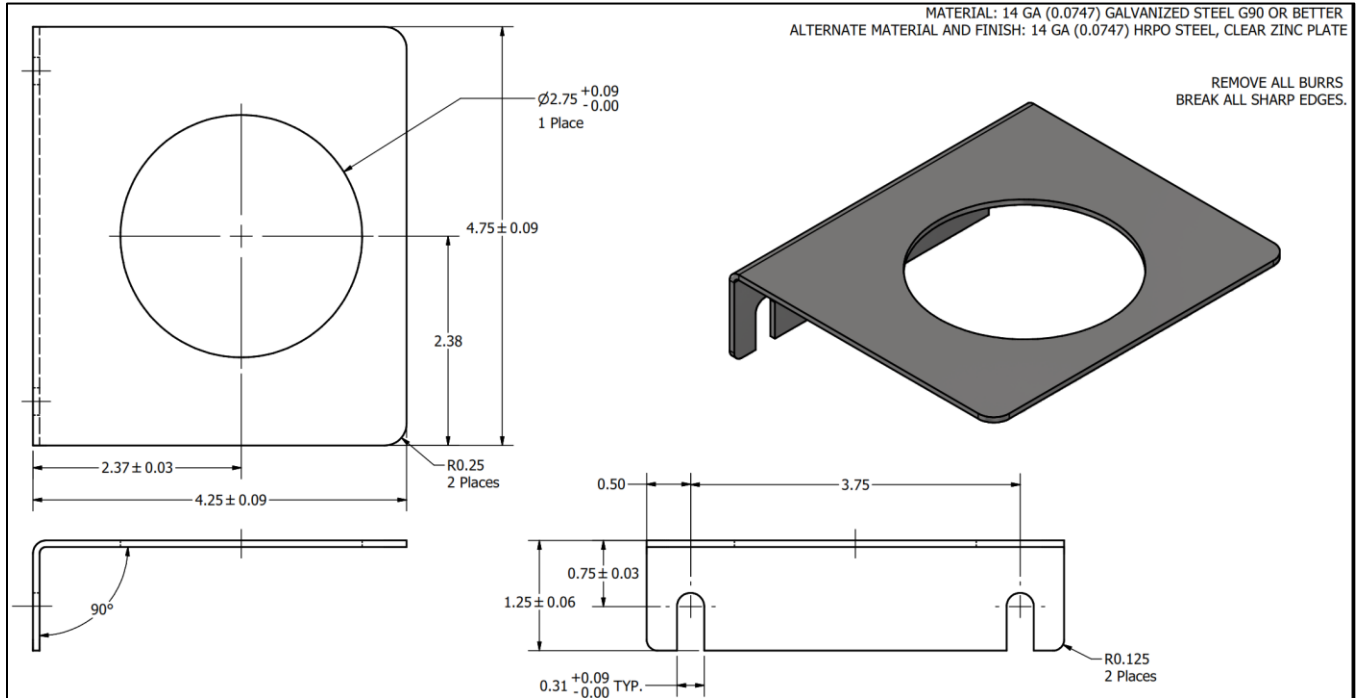
PRODUCT IDENTIFICATION:

Loose capacitor part numbers will transition from old part numbers to new part numbers as defined in section PART NUMBERS / SERIES / FAMILIES AFFECTED “Loose Capacitors”.

MFC, HGP or HGL kit part numbers are not changing.

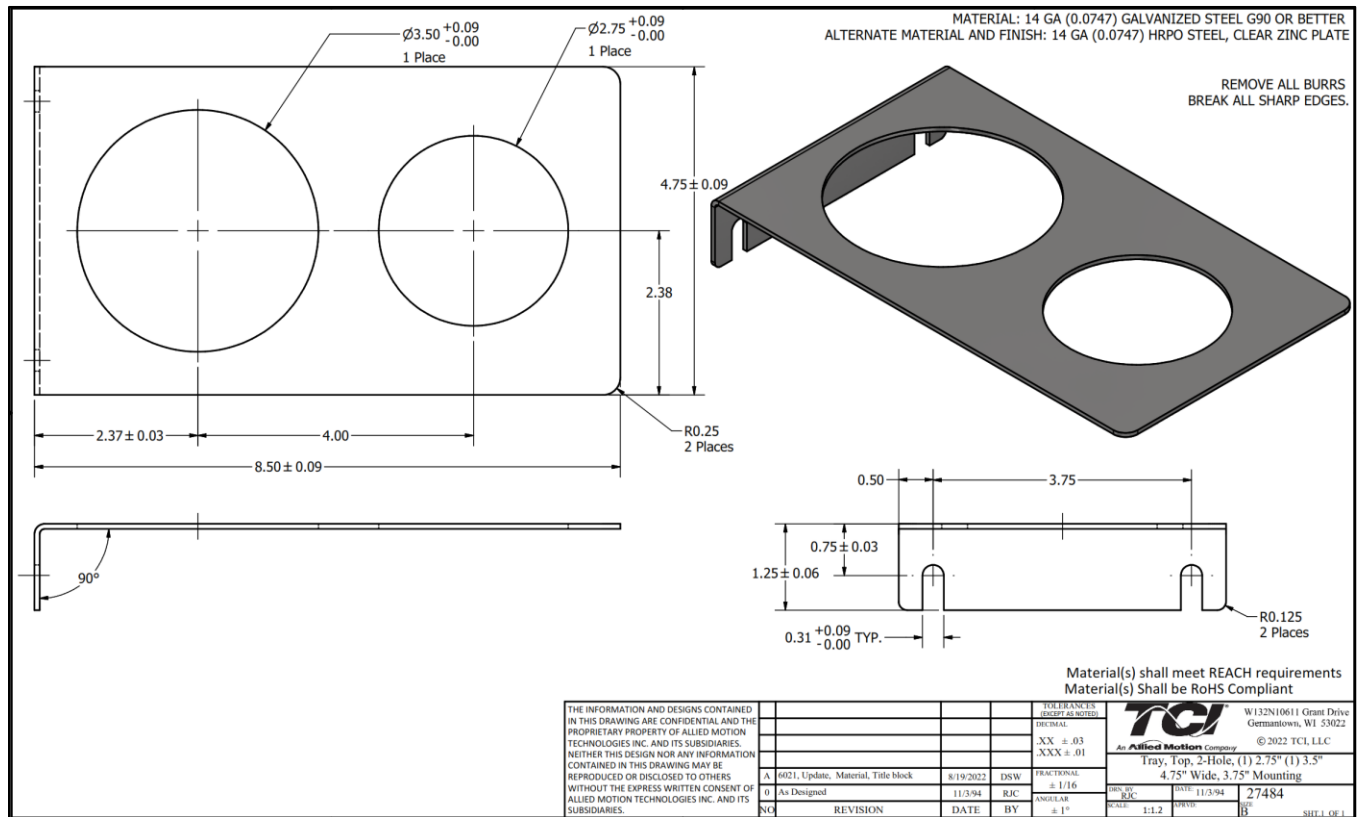
Capacitor Bracket Comparison:

The mounting locations of the capacitor brackets will have no change as detailed in DWG 325441 (single capacitor) and 32542 (2 capacitor) respectively which support the new Vishay capacitor diameters only for 3,5,6, and 8.33 kVAR capacitors. The new 10, 15 and 20kVAR capacitors do not have a mounting bracket change.



Mixed Capacitor brackets:

Due to supply, there may be times where a mixed capacitor arrangement is needed to ensure timely product delivery. The below drawing representation (27484) would be an example of a new smaller diameter (2.52") 3 kVAR capacitor coupled with an older larger diameter (3.00") 5 kVAR capacitor. The bracket shipped with the filter kit part would accommodate each diameter respectively.



Always check <https://transcoil.com/products/kits-page/> for the most up to date filter kit details.

Capacitor Comparison:

kVAR	New TCI part	Dimensions	Old TCI part	Dimensions
3	32446	Height: 9.15", Dia 2.52"	27605	Height: 7.46", Dia 3.00"
5	32447	Height: 9.15", Dia 2.52"	27606	Height: 7.46", Dia 3.00"
6	32448	Height: 9.15", Dia 2.52"	28503	Height: 8.24", Dia 3.35"
8.33	32449	Height: 9.15", Dia 2.52"	29230	Height: 9.70", Dia 3.35"
10	32450	Height: 9.11", Dia 3.32"	27607	Height: 9.07", Dia 3.35"
10	32450	Height: 9.11", Dia 3.32"	28565	Height: 9.11", Dia 3.32"
15	32451	Height: 9.11", Dia 3.32"	27608	Height: 11.98", Dia 3.35"
20	32452	Height: 12.06", Dia 3.32"	27609	Height: 12.26", Dia 3.35"

Example Oil Filled Capacitor with Spring Clamp Terminal Drawing:

Capacitor, 10kVar, 480V, 60Hz
 Oil Version, Spring Clamp, Vishay.
 3 x 38.5uF Delta Connection
 Approx Weight: 2.87 LBS

Wire Range: 14 AWG To 4 AWG
 Strip Length: 0.71 IN.
 Wire Insulation Insertion Depth: 0.315 IN.
 Maximum Ferrule Dimensions: Rectangular 0.299 IN Wide
 By 0.236 IN Thick, Long Dimension Horizontal.

Open Lever to Insert Wire
 Release or Close Lever After Wire Is Inserted to Clamp Wire.
 Lever Is Designed for at Least 10 Operating Cycles.
 Continuous Use Can Result in Excessive Wear.

Press Orange Plate Marked "PUSH" To Insert Resistor
 Leads Into Capacitor Terminal Block.
 Body Of Resistor Will Be Flush With Terminal Block.

Warning: Bleeder Resistor Must Be Installed
 In Every Capacitor
 Capacitor Voltage Will Not Discharge After
 Switching Power Off Without Bleeder Resistor Installed.

Warning
 After switching off the power, always allow 5 minutes for
 the capacitors in the filter and in the drive to
 discharge before working on the filter, the drive, the
 motor, or the connecting wiring. It is a good idea to check
 with a voltmeter to make sure that all sources of power
 have been disconnected and that all capacitors have
 discharged before beginning work.

Lock Washer
 Nut
 M12
 Mounting Nut Tightening Torque: 88.5 (LBS-IN) 10 [Nm].
 Ø3.32

Material(s) Shall be RoHS Compliant
 Material(s) shall meet REACH requirements

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This PCN is considered approved, without further notification. Returns based on the prior design will not be accepted.

Josh Haase

ISSUED BY: Josh Haase, TCI Product Manager

For further information, please contact your TCI Regional Sales Manager or Marketing Team at marketing@transcoil.com