

# ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP LaserJet Enterprise MFP M634 Series

## Printing device and settings

Test Start Date and Time	1/9/2020 11:55
Tester	AW
Machine name/model	HP LaserJet Enterprise MFP M634 Series
Colour or B&W	B&W
FW Version	2410028 055025
Temperature and Humidity	75 degF / 24 degC 17% %RH
Voltage	110V
Test End Date and Time	8/3/2020 13:23

Item	Value
Mode and Setting	Driver Version: 6.9.0.24630
	Media/Quality Setting: Default / Default
	Simplex B&W Settings: default
	Duplex B&W Settings: default
	Setting N set count: Application
Paper Path	Collating function: Activated (application)
	Paper Sending Direction: Default
	Paper Size Setting: Default
	Paper Feeding: Tray 2
	Paper Exit: Standard Exit Tray
Paper	Output Orientation: Default (face down)
	Duplexing Unit (Yes/No): Yes
	Paper Manufacturer: HP
	Paper Weight: 208 / 75 g/m2
	Paper Size: Letter / A4
	Paper type/name: HP Multipurpose Ultra White / HP Office

## Summary Report: Letter

Office Category Test for B&W Device	FSOT (seconds)	ESAT (ipm)
B&W	Simplex	8.25 55.55
	Duplex	9.78 56.19

Notes  
1) All printing device and driver settings were default mode.  
2) For the B&W results, the print driver was set to "print in B&W".  
3) For more information see <http://www.hp.com/go/printerclaims>.  
4) Port monitor not configured to follow device if the IP address changes.

## Detailed Report: LETTER

	Office Category Test	FSOT (secs) 1 set only (1 set)	1 set only (1 set)	EFTP (ipm) 1 set + 30sec (# of sets)	1 set + 4min (# of sets)	ESAT (ipm) 1 set + 30sec
Color Mode	Simplex - Adobe Reader		( 1 set )			
	Simplex - Word		( 1 set )			
	Simplex - Excel		( 1 set )			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	8.08	29.72 ( 1 set )	50.75 ( 10 sets )	53.83 ( 58 sets )	55.55
	Simplex - Word	8.57	28.03 ( 1 set )	50.79 ( 10 sets )		55.55
	Simplex - Excel	8.10	29.65 ( 1 set )	50.61 ( 9 sets )		55.57
	Simplex - Average	8.25	29.13	50.71	53.8	55.55
	Duplex - Adobe Reader	9.63	24.94 ( 1 set )	48.30 ( 9 sets )		56.24
	Duplex - Word	9.91	24.22 ( 1 set )	47.66 ( 9 sets )		56.18
	Duplex - Excel	9.79	24.50 ( 1 set )	47.68 ( 9 sets )		56.16
	Duplex - Average	9.78	24.55	47.88		56.19

Notes  
1) All printing device and driver settings were default mode.  
2) For the B&W results, the print driver was set to "print in B&W".  
3) For more information see <http://www.hp.com/go/printerclaims>.  
4) Port monitor not configured to follow device if the IP address changes.

## Test System Parameters

Item	Value
Computer	HP Z240 SFF Workstation
Processor	Intel Core i7 -5770, 3.4 GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	8 Gb
Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	HP HLDS DVD+RW GUD1N
I/O Subsystem	Bulltin
USB Subsystem	USB 2.0/3.0
Network	10/100/1000
Operating System	Win 10 Enterprise 64 Bit (10240)
Printing Applications	Microsoft Office Word 2016 Acrobat Reader DC Microsoft Office Excel 2016
Print Driver	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A4

HP LaserJet Enterprise MFP M634 Series

Printing device and settings

Test Start Date and Time	1/9/2020 11:55
Tester	AW
Machine name/model	HP LaserJet Enterprise MFP M634 Series
Colour or B&W	B&W
FW Version	2410028 055025
Temperature and Humidity	75 degF / 24 degC 17% %RH
Voltage	110V
Test End Date and Time	8/3/2020 13:23

Item	Value
Mode and Setting	Driver Version 6.9.0.24630
	Media/Quality Setting Default / Default
	Simplex B&W Settings default
	Duplex B&W Settings default
	Setting N set count Application
Paper Path	Collating function Activated (application)
	Paper Sending Direction Default
	Paper Size Setting Default
	Paper Feeding Tray 2
	Paper Exit Standard Exit Tray
Paper	Output Orientation Default (face down)
	Duplexing Unit (Yes/No) Yes
	Paper Manufacturer HP
	Paper Weight 208 / 75 g/m2
	Paper Size Letter / A4
	Paper type/name HP Multipurpose Ultra White / HP Office

Summary Report: A4

Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	8.54	52.98
	Duplex	10.14	53.50

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B&W results, the print driver was set to "print in B&W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: A4

	Office Category Test	FSOT (secs)	EFTP (ipm)		ESAT (ipm)
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)
Colour Mode	Simplex - Adobe Reader		( 1 set )		
	Simplex - Word		( 1 set )		
	Simplex - Excel		( 1 set )		
	Simplex - Average				
	Duplex - Adobe Reader	N/A	N/A	N/A	N/A
	Duplex - Word	N/A	N/A	N/A	N/A
	Duplex - Excel	N/A	N/A	N/A	N/A
	Duplex - Average	N/A	N/A	N/A	N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	8.30	28.91 ( 1 set )	47.94 ( 8 sets )	51.34 ( 55 sets )
	Simplex - Word	8.71	27.56 ( 1 set )	47.55 ( 8 sets )	
	Simplex - Excel	8.59	27.93 ( 1 set )	47.64 ( 8 sets )	
	Simplex - Average	8.5	28.13	47.72	51.3
	Duplex - Adobe Reader	10.06	23.86 ( 1 set )	45.50 ( 8 sets )	
	Duplex - Word	10.31	23.26 ( 1 set )	44.94 ( 8 sets )	
	Duplex - Excel	10.03	23.92 ( 1 set )	44.94 ( 8 sets )	
	Duplex - Average	10.1	23.68	45.12	

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B&W results, the print driver was set to "print in B&W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters

Item	Value
Computer	HP Z240 SFF Workstation
Processor	Intel Core i7 -6770, 3.4 GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	8 Gb
Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	HP HLDS DVD/BD GUD1N
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
Network	10/100/1000
Operating System	Win 10 Enterprise 64 Bit (10240)
Printing Applications	Microsoft Office Word 2016 Acrobat Reader DC
Print Driver	Not Specified
Test files and location	Office category files, hard drive

# ISO/IEC 24734 Printing Productivity Report: Office Category

Feature Performance Full Report - Office Feature Performance Test  
HP LaserJet Enterprise MFP M634 Series

Printing device and settings		
	Test Start Date and Time	1/9/2020 11:55
	Tester	AW
	Machine name/model	HP LaserJet Enterprise MFP M634 Series
	Colour or B&W	B&W
	FW Version	2410028 055025
	Temperature and Humidity	75 degF / 24 degC 17% %RH
	Voltage	110V
	Test End Date and Time	8/3/2020 13:23

Item		Value
Mode and Setting	Driver Version	6.9.0.24630
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	default
	Duplex B&W Settings	default
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
Paper	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
	Paper Manufacturer	HP
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

ISO Print Productivity Report: Feature Performance Test Summary			
Printing Modes (Feature Adobe Reader - Office test file)		Feature Performance Ratio	
		FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5, Landscape Feed, Simplex, Colour	Simplex		
A5, Portrait Feed, Simplex, Colour	Simplex		
Legal, Simplex, Colour	Simplex		
Legal, Duplex, Colour	Duplex		
A4, 1200 dpi, Simplex, Colour	Simplex		
Letter, 1200 dpi, Simplex, Colour	Simplex		
A4, HP High Speed, Simplex, Colour	Simplex		
Letter, HP High Speed, Simplex, Colour	Simplex		
A4, General Office, Simplex, Colour	Simplex		
Letter, General Office, Simplex, Colour	Simplex		
A5, Landscape Feed, Simplex, B/W	Simplex	135%	152%
A5, Portrait Feed, Simplex, B/W	Simplex	68%	54%
Legal, Simplex, B/W	Simplex		
Legal, Duplex, B/W	Duplex		
A4, 1200 dpi, Simplex, B/W	Simplex		
Letter, 1200 dpi, Simplex, B/W	Simplex		
A4, HP High Speed, Simplex, B/W	Simplex		
Letter, HP High Speed, Simplex, B/W	Simplex		
A4, General Office, Simplex, B/W	Simplex		
Letter, General Office, Simplex, B/W	Simplex		

Notes:  
1) All printing device and driver settings were default mode.  
2) Test conducted with 8-pager Office Feature Performance file.  
3) For more information see <http://www.hp.com/go/printerclaims>.  
4) Port monitor not configured to follow device if the IP address changes.

Feature Performance Full Report - Feature Printing Mode: 'Office' Feature Performance Test						
Printing Modes Feature Adobe Reader - Office test file (8-page)	Base Printing Mode		Feature Performance			
	FSOT Base	ESAT Base	1 set FSOT (secs)	1 set + 30 sec ESAT (ppm)	FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5, Landscape Feed, Simplex, Colour						
A5, Portrait Feed, Simplex, Colour						
Legal, Simplex, Colour						
Legal, Duplex, Colour						
A4, 1200 dpi, Simplex, Colour						
Letter, 1200 dpi, Simplex, Colour						
A4, HP High Speed, Simplex, Colour						
Letter, HP High Speed, Simplex, Colour						
A4, General Office, Simplex, Colour						
Letter, General Office, Simplex, Colour						
A5, Landscape Feed, Simplex, B/W	13.04	52.97	9.71	80.9	135%	152%
A5, Portrait Feed, Simplex, B/W	13.04	52.97	19.42	29.1	68%	54%
Legal, Simplex, B/W	12.47	55.57				
Legal, Duplex, B/W	12.47	55.57				
A4, 1200 dpi, Simplex, B/W	13.04	52.97				
Letter, 1200 dpi, Simplex, B/W	12.47	55.57				
A4, HP High Speed, Simplex, B/W						
Letter, HP High Speed, Simplex, B/W						
A4, General Office, Simplex, B/W	13.04	52.97				
Letter, General Office, Simplex, B/W	12.47	55.57				

Notes:  
1) All printing device and driver settings were default mode.  
2) Test conducted with 8-pager Office Feature Performance file.  
3) For more information see <http://www.hp.com/go/printerclaims>.  
4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Test System	Computer HP Z240 SFF Workstation
	Processor Intel Core i7-6770, 3.4 GHz
	System Chip Set Intel SKL/RBL Mobile/Desktop
	System Board system devices, default system BIOS
	System Memory 8 GB
	Hard Drive Subsystem Turbo Drive G2 256GB PCIe SSD
	Video Subsystem Microsoft Basic Display Adaptor
	Optical Drive HP HLDS DVD/BDW GLD1N
IO	IO Subsystem Built-in
	USB Subsystem USB 2.0/3.0
Software	TC/PIF TCP/IP 10/1000
	Operating System Win 10 Enterprise 64 Bit (10240)
	Printing Applications Microsoft Office Word 2016
	Acrobat Reader DC
	Microsoft Office Excel 2016
Print Driver Not Specified	
Test files and location Office category files, hard drive	

ISO/IEC 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - LETTER

HP LaserJet Enterprise MFP M634 Series

Printing device and settings	
Test Start Date and Time	1/8/2020 15:41
Tester	AW
Machine name/model	HP LaserJet Enterprise MFP M634 Series
Colour or B&W	B&W
FW Version	2410028 055025
Configuration (options)	Default
Controller	5.103
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	75 degF / 24 degC 17 %RH
Voltage	110V
Test End Date and Time	1/17/2020 17:15

Item	Value
Mode and Setting	PDL and driver version
	6.9.0.24630
	Print Quality mode
	default
Paper	B&W settings
	default
	Paper feed orientation
	Short Edge
Paper Path	Paper type setting
	default
	Paper feeding
	Standard cassette
Paper Path	Paper exit
	Standard exit tray
Output orientation	
default (face up or face down)	

ISO First Page Out Time Summary Report: Office Category

Summary Report: Letter	
FPOT from Ready (seconds)	
B&W	Simplex
	Duplex

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B&W results, the print driver was set to "print in B&W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.
- 5) Page counts were collected after completion of the tests.

ISO First Page Out Time Report: Office Category					
Detailed Report: LETTER					
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)
Color Mode	FPOT from Ready - Simplex				
	FPOT from Ready - Duplex				
	FPOT from Sleep - Simplex			N/A	
	Recovery Time				
	FPOT from Off - Simplex				
	Warm-up Time				
B&W Mode	FPOT from Ready - Simplex	5.11	5.10	4.61	4.94
	FPOT from Ready - Duplex				
	FPOT from Sleep - Simplex			11.25	
	Recovery Time			6.6	
	FPOT from Off - Simplex			172.89	
	Warm-up Time			168.28	

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B&W results, the print driver was set to "print in B&W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.
- 5) Page counts were collected after completion of the tests.
- 6) Details for FPOT from Sleep are shown below.

HP Data Table						
Detailed Report: LETTER						
		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application
Color Mode	FPOT from Sleep	N/A	N/A	N/A	N/A	Adobe Reader
	FPOT from Sleep (15 minutes) HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader
	FPOT from Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader
	FPOT from Sleep	11.25	11.09	11.40	N/A	Adobe Reader
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	11.10	11.20	11.00	N/A	Adobe Reader

Test System Parameters	
Item	Value
Test System	Computer
	HP Z240 SFF Workstation
	Processor
	Intel Core i7-6770, 3.4 GHz
	System Chip Set
	Intel SKUKBL Mobile/Desktop
	System Board
	system devices, default system BIOS
	System Memory
Printing Device Connection	Hard Drive Subsystem
	Turbo Drive G2 256GB PCIe SSD
	Video Subsystem
	Microsoft Basic Display Adaptor
	Optical Drive
	HP HLDS DVD-RW GUD1N
	I/O Subsystem
	Built-in
	USB Subsystem
Software	Operating System
	Win 10 Enterprise 64 Bit (10240)
	Printing Applications
	Microsoft Office 2016
Software	Adobe Reader DC
	Print Driver
	6.9.0.24630

ISO/IEC 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - A4

HP LaserJet Enterprise MFP M634 Series

Printing device and settings	
Test Start Date and Time	1/8/2020 15:41
Tester	AW
Machine name/model	HP LaserJet Enterprise MFP M634 Series
Colour or B&W	B&W
FW Version	2410028_055025
Configuration (options)	Default
Controller	6.103
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	75 degF / 24 degC 17 %RH
Voltage	110V
Test End Date and Time	1/17/2020 17:15

Item	Value
Mode and Setting	PDL and driver version
	6.9.0.24630
	Print Quality mode
	default
Paper	B&W settings
	default
	Paper feed orientation
	Short Edge
Paper Path	Paper type setting
	default
	Paper feeding
	Standard cassette
Paper Path	Paper exit
	Standard exit tray
Output orientation	
default (face up or face down)	

ISO First Page Out Time Summary Report: Office Category

Summary Report: A4	
FPOT from Ready (seconds)	
B&W	Simplex
	Duplex

Notes  
1) All printing device and driver settings were default mode.  
2) For the B&W results, the print driver was set to "print in B&W".  
3) For more information see <http://www.hp.com/go/printerclaims>.  
4) Port monitor not configured to follow device if the IP address changes.  
5) Page counts were collected after completion of the tests.

ISO First Page Out Time Report: Office Category						
Detailed Report: A4						
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
Color Mode	FPOT from Ready - Simplex					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			N/A		
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
B&W Mode	FPOT from Ready - Simplex	5.20	5.12	4.81	5.05	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			11.15		95 Minutes
	Recovery Time			6.3		
	FPOT from Off - Simplex			191.80		
	Warm-up Time			186.99		
Notes 1) All printing device and driver settings were default mode. 2) For the B&W results, the print driver was set to "print in B&W". 3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> . 4) Port monitor not configured to follow device if the IP address changes. 5) Page counts were collected after completion of the tests. 6) Details for FPOT from Sleep are shown below.						

HP Data Table							
Detailed Report: A4							
		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
Color Mode	FPOT from Sleep	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep (15 minutes) HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
B&W Mode	FPOT from Sleep	11.15	11.19	11.11	N/A	Adobe Reader	95 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	11.13	11.18	11.08	N/A	Adobe Reader	15 Minutes

Test System Parameters	
Item	Value
Test System	Computer
	HP Z240 SFF Workstation
	Processor
	Intel Core i7-6770, 3.4 GHz
	System Chip Set
	Intel SKU/KBL Mobile/Desktop
	System Board
	system devices, default system BIOS
	System Memory
Printing Device Connection	Hard Drive Subsystem
	Turbo Drive G2 256GB PCIe SSD
	Video Subsystem
	Microsoft Basic Display Adaptor
	Optical Drive
	HP HLDS DVD/CD RW GUD1N
	I/O Subsystem
Software	Built-in
	USB Subsystem
	USB 2.0/3.0
Printing Device Connection	TCP/IP
	10/100
Software	Operating System
	Win 10 Enterprise 64 Bit (10240)
	Printing Applications
	Microsoft Office 2016
Software	Adobe Reader DC
	Print Driver
	6.9.0.24630

### Full Detailed Test Report - LETTER

HP LaserJet Enterprise MFP M634 Series

Summary Report: <b>Letter</b>		
	<b>sFCOT</b>	<b>sESAT (ipm)</b>
<b>B&amp;W</b>	4.57	55.65

Notes

First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.

Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

Detailed Report: LETTER						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
B&W	A	4.57	13.12	47.57	53.75	55.65
				32 sets	242 sets	
	B					
	C					
	D					
	Average	4.57	13.12	47.57	53.75	55.65

Notes

First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document. Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

### Full Detailed Test Report - A4

### Machine Setup Information

	Pre-set Item	Pre-set Value
<b>Mode</b>	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Colour for Colour and B&W for B&W
	Auto Density Adjustment	Default
	Collating function	Set in Control Panel
<b>Paper</b>	Paper Sending Direction	Default
	Paper Type Setting	Default
<b>Paper Path</b>	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
<b>Temporary Stop</b>	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None
<b>Paper</b>	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Detailed Report: A4						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
B&W	A	4.26	14.09	47.03	51.29	53.04
				29 sets	242 sets	
	B					
	C					
	D					
	Average	4.26	14.09	47.03	51.29	53.04

Notes

First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.  
Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

### Full Detailed Test Report - LETTER

ISO/IEC 24735 Copy Productivity Report						
Detailed Report: LETTER						
	Copying Mode	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only	1 set only	1 set + 30sec	1 set + 4min	1 set + 30sec
Color Mode	1:1					
			( 1 set )			
	1:2					
			( 1 set )			
	2:2					
			( 1 set )			
B&W mode	1:1	8.48	28.31	45.45	53.25	55.55
				9 sets	58 sets	
	1:2	11.24	21.36	46.70		56.22
				9 sets		
	2:2	13.20	18.18	44.72		56.26
				9 sets		

Notes  
 Reports located: <http://www.hp.com/go/printerclaims>



## Full Detailed Test Report - A4

ISO/IEC 24735 Copy Productivity Report						
Detailed Report: A4						
	Copying Mode	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only	1 set only	1 set + 30sec	1 set + 4min	1 set + 30sec
Colour Mode	1:1					
			( 1 set )			
	1:2					
			( 1 set )			
	2:2					
			( 1 set )			
B&W mode	1:1	8.36	28.72	47.57	51.32	52.96
				8 sets	55 sets	
	1:2	11.13	21.56	43.14		53.54
				9 sets		
	2:2	12.82	18.70	40.64		53.52
				9 sets		

Notes  
 Reports located: <http://www.hp.com/go/printerclaims>

## ISO/IEC 17991 Scanning Productivity Report

### Full Detailed Test Report - LETTER

Machine Setup Information		
	Test Start Date and Time	1/6/2020 15:10
	Tester	AW
	Machine name/model	HP LaserJet Enterprise MFP M634 Series
	Colour or B&W	B&W
	Configuration (options)	Default
	Temperature and Humidity	75 degF / 24 degC 17 %rH
	Voltage	110V
	Test End Date and Time	1/8/2020 11:39

Preset Item		Preset Value
Mode and Setting	Scanning resolution	default (200 dpi)
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
	Paper feed direction	default (long edge)
ADF Paper-path	Output orientation	default
	Scanning unit	default (duplex ADF)

### ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

#### Summary Report: Letter

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	80.00
			double sided	128.60
B&W	PDF 1.4	200	single sided	79.64
			double sided	128.30

#### Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.  
2) For the B/W results, the device scan setting is set to "Scan in B/W".

### ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

#### Summary Report: Letter

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	59.76	4.80	13.00
			double sided	77.50	6.62	18.00
B&W	PDF 1.4	200	single sided	62.57	2.37	13.00
			double sided	72.09	3.25	18.00

#### Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.  
2) For the B/W results, the device scan setting is set to "Scan in B/W".

### ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

#### Summary Report: Letter

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	40.67	74.55	80
			double sided	48.63	117.51	128.6
B&W	PDF 1.4	200	single sided	37.89	73.17	79.64
			double sided	51.83	116.73	128.3

#### Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.  
2) For the B/W results, the device scan setting is set to "Scan in B/W".

### ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

#### Summary Report: Letter

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	25.83	59.76	4.80	13
			double sided	25.60	77.50	6.62	18
B&W	PDF 1.4	200	single sided	24.72	62.57	2.37	13
			double sided	26.07	72.09	3.25	18

#### Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.  
2) For the B/W results, the device scan setting is set to "Scan in B/W".

Test System Parameters		
Item		Value
System	Computer name	HP Z240 SFF Workstation
	Processor	Intel Core i7 -6770, 3.4 GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	8 GB
	Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDRW GUD1N
	I/O Subsystem	Built-in
	USB Subsystem	USB 2.0/3.0
Scanning Device Connection	Operating System	Win 10 Enterprise 64 Bit (10240)
	Location of network folder	PC
	Internet Protocol	IPv4
	Transfer Protocol	SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connction Cable	Cat6 Straight cable
	Wireless router	No use
	Others	No use

## ISO/IEC 17991 Scanning Productivity Report

### Full Detailed Test Report - A4

Machine Setup Information		
	Test Start Date and Time	1/6/2020 15:10
	Tester	AW
	Machine name/model	HP LaserJet Enterprise MFP M634 Series
	Colour or B&W	B&W
	Configuration (options)	Default
	Temperature and Humidity	75 degF / 24 degC 17 %rH
	Voltage	110V
	Test End Date and Time	1/8/2020 11:39

Preset Item		Preset Value
Mode and Setting	Scanning resolution	default (200 dpi)
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
ADF Paper-path	Paper feed direction	default (long edge)
	Output orientation	default
	Scanning unit	default (duplex ADF)

### ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

#### Summary Report: A4

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	75.30
			double sided	122.97
B&W	PDF 1.4	200	single sided	74.84
			double sided	122.94

#### Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.  
2) For the B/W results, the device scan setting is set to "Scan in B/W".

### ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

#### Summary Report: A4

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	56.96	4.05	12.00
			double sided	77.85	5.91	18.00
B&W	PDF 1.4	200	single sided	59.82	2.06	12.00
			double sided	70.40	3.01	18.00

#### Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.  
2) For the B/W results, the device scan setting is set to "Scan in B/W".

### ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

#### Summary Report: A4

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	37.61	69.88	75.3
			double sided	48.18	112.55	122.97
B&W	PDF 1.4	200	single sided	37.55	68.84	74.84
			double sided	47.64	112.11	122.94

#### Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.  
2) For the B/W results, the device scan setting is set to "Scan in B/W".

### ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

#### Summary Report: A4

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	24.29	56.96	4.05	12
			double sided	25.76	77.85	5.91	18
B&W	PDF 1.4	200	single sided	24.53	59.82	2.06	12
			double sided	26.11	70.40	3.01	18

#### Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.  
2) For the B/W results, the device scan setting is set to "Scan in B/W".

Test System Parameters		
	Item	Value
System	Computer name	HP Z240 SFF Workstation
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	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	8 GB
	Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDRW GUD1N
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Scanning Device Connection	Operating System	Win 10 Enterprise 64 Bit (10240)
	Location of network folder	PC
	Internet Protocol	IPv4
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	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connction Cable	Cat6 Straight cable
	Wireless router	No use
	Others	No use